Should the genomic DNA downstream of the promoter contain, in an antisense orientation, at least a portion of an mRNA or a non-translated RNA encoding a gene product involved in proliferation, then induction of transcription from the promoter will result in detectable inhibition of proliferation.

In the case of *Staphylococcus aureus*, a shotgun library of *Staphylococcus aureus* genomic fragments was cloned into the vector pXylT5-P15a, which harbors the XylT5 inducible promoter. The vector was linearized at a unique *Bam*HI site immediately downstream of the XylT5 promoter/operator. The linearized vector was treated with shrimp alkaline phosphatase to prevent reclosure of the linearized ends. Genomic DNA isolated from *Staphylococcus aureus* strain RN450 was fully digested with the restriction enzyme *Sau*3A , or , alternatively, partially digested with DNase I and "blunt-ended" by incubating with T4 DNA polymerase. Random genomic fragments between 200 and 800 base pairs in length were selected by gel purification. The size-selected genomic fragments were added to the linearized and dephosphorylated vector at a molar ratio of 0.1 to 1, and ligated to form a shotgun library.

The ligated products were transformed into electrocompetent *E. coli* strain XL1-Blue MRF' (Stratagene) and plated on LB medium with supplemented with carbenicillin at 100 μg/ml. Resulting colonies numbering 5×10^5 or greater were scraped and combined, and were then subjected to plasmid purification.

The purified library was then transformed into electrocompetent *Staphylococcus aureus* RN4220. Resulting transformants were plated on agar containing LB + 0.2% glucose (LBG medium) + chloramphenicol at 15 μg/ml (LBG+CM15 medium) in order to generate 100 to 150 platings at 500 colonies per plating. The colonies were subjected to robotic picking and arrayed into wells of 384 well culture dishes. Each well contained 100μl of LBG + CM15 liquid medium. Inoculated 384 well dishes were incubated 16 hours at 37°C, and each well was robotically gridded onto solid LBG + CM15 medium with or without 2% xylose. Gridded plates were incubated 16 hours at 37°C, and then manually scored for arrayed colonies that were growth-compromised in the presence of xylose.

Arrayed colonies that were growth-sensitive on medium containing 2% xylose, yet were able to grow on similar medium lacking xylose, were subjected to further growth sensitivity analysis as follows: Colonies from the plate lacking xylose were manually picked and inoculated into individual wells of a 96 well culture dish containing LBG + CM15, and were incubated for 16 hours at 37°C. These cultures were robotically diluted 1/100 into fresh medium and allowed to incubate for 4 hours at 37°C, after which they were subjected to serial dilutions in a 384 well array and then gridded onto media containing 2% xylose or media lacking xylose. After growth for 16 hours at 37°C, the arrays that resulted on the two media were compared to each other. Clones that grew similarly at all dilutions on both media were scored as a negative and were no longer considered. Clones that grew on xylose medium but failed to grow at the same serial dilution on the non-xylose plate were given a score based on the differential, i.e. should the clone grow at a

serial dilution of 10^4 or less on the xylose plate and grow at a serial dilution of 10^8 or less on the non-xylose plate, then the corresponding clone received a score of "4" representing the log difference in growth observed.

For *Salmonella typhimurium* and *Klebsiella pneumoniae* growth curves were carried out by back diluting cultures 1:200 into fresh media containing 1 mM IPTG or media lacking IPTG and measuring the OD_{450} every 30 minutes (min). To study the effects of transcriptional induction on solid medium, 10^2, 10^3, 10^4, 10^5, 10^6, 10^7 and 10^8 fold dilutions of overnight cultures were prepared. Aliquots of from 0.5 to 3 µl of these dilutions were spotted on selective agar plates with or without 1 mM IPTG. After overnight incubation, the plates were compared to assess the sensitivity of the clones to IPTG.

Nucleic acids involved in proliferation of *Pseudomonas aeruginosa* were identified as follows. Randomly generated fragments of *Pseudomonas aeruginosa* genomic DNA were transcribed from a two-component inducible promoter system. Integrated on the chromosome was the T7 RNA polymerase gene regulated by *lac*UV5/ *lac*O (Brunschwig, E. and Darzins, A. 1992. Gene 111:35-41). On an expression plasmid there was a T7 gene 10 promoter, which is transcribed by T7 RNA polymerase, fused with a *lac*O operator followed by a multiple cloning site. Transcription from this hybrid promoter is inducible by IPTG. Should the genomic DNA downstream of the promoter contain, in an antisense orientation, at least a portion of an mRNA encoding a gene product involved in proliferation, then induction of expression from the promoter will result in detectable inhibition of proliferation.

A shotgun library of *Pseudomonas aeruginosa* genomic fragments was cloned into the vectors pEP5, pEP5S, or other similarly constructed vectors which harbor the T7*lac*O inducible promoter. The vector was linearized at a unique *Sma*I site immediately downstream of the T7*lac*O promoter/operator. The linearized vector was treated with shrimp alkaline phosphatase to prevent reclosure of the linearized ends. Genomic DNA isolated from *Pseudomonas aeruginosa* strain PAO1 was partially digested with DNase I and "blunt-ended" by incubating with T4 DNA polymerase. Random genomic fragments between 200 and 800 base pairs in length were selected by gel purification. The size-selected genomic fragments were added to the linearized and dephosphorylated vector at a molar ratio of 2 to 1, and ligated to form a shotgun library.

The ligated products were transformed into electrocompetent *E. coli* strain XL1-Blue MRF' (Stratagene) and plated on LB medium with carbenicillin at 100 µg/ml or Streptomycin 100 µg/ml. Resulting colonies numbering 5×10^5 or greater were scraped and combined, and were then subjected to plasmid purification.

The purified library was then transformed into electrocompetent *Pseudomonas aeruginosa* strain PAO1. Resulting transformants were plated on LB agar with carbenicillin at 100 µg/ml or Streptomycin 40 µg/ml in order to generate 100 to 150 platings at 500 colonies per plating. The colonies were subjected to robotic picking and arrayed into wells of 384 well culture dishes. Each well contained 100 µl of LB + CB 100 or Streptomycin 40 liquid medium. Inoculated 384 well

dishes were incubated 16 hours at room temperature, and each well was robotically gridded onto solid LB + CB100 or Streptomycin 40 medium with or without 1 mM IPTG. Gridded plates were incubated 16 hours at 37°C, and then manually scored for arrayed colonies that were growth-compromised in the presence of IPTG.

5   Arrayed colonies that were growth-sensitive on medium containing 1 mM IPTG, yet were able to grow on similar medium lacking IPTG, were subjected to further growth sensitivity analysis as follows: Colonies from the plate lacking IPTG were manually picked and inoculated into individual wells of a 96 well culture dish containing LB + CB100 or Streptomycin 40, and were incubated for 16 hours at 30°C. These cultures were robotically diluted 1/100 into fresh medium
10   and allowed to incubate for 4 hours at 37°C, after which they were subjected to serial dilutions in a 384 well array and then gridded onto media with and without 1 mM IPTG. After growth for 16 hours at 37°C, the arrays of serially diluted spots that resulted were compared between the two media. Clones that grew similarly at all dilutions on both media were scored as a negative and were no longer considered. Clones that grew on IPTG medium but failed to grow at the same serial
15   dilution on the non-IPTG plate were given a score based on the differential, i.e. should the clone grow at a serial dilution of 10^4 or less on the IPTG plate and grow at a serial dilution of 10^8 or less on the IPTG plate, then the corresponding clone received a score of "4" representing the log difference in growth observed.

        Following the identification of those vectors that, upon induction, negatively impacted
20   *Pseudomonas aeruginosa* growth or proliferation, the inserts or nucleic acid fragments contained in those vectors were isolated for subsequent characterization. Vectors of interest were subjected to nucleic acid sequence determination.

        Nucleic acids involved in proliferation of *E. faecalis* were identified as follows. Randomly generated fragments of genomic DNA were expressed from the vectors pEPEF3 or pEPEF14,
25   which contain the CP25 or P59 promoter, respectively, regulated by the xyl operator/repressor. These plasmids as well as other vectors useful for the expression of nucleic acids in *Enterococcus faecalis* and other Gram positive organisms are described in U.S. Patent Application Serial Number 10/032,393, filed December 21, 2001, the disclosure or which is incorportated herein by reference in its entirety. Should the genomic DNA downstream of the promoter contain, in an antisense
30   orientation, at least a portion of a mRNA encoding a gene product involved in proliferation, then induction of expression from the promoter will result in detectable inhibition of proliferation.

        A shotgun library of *E. faecalis* genomic fragments was cloned into the vector pEPEF3 or pEPEF14, which harbor xylose inducible promoters. The vector was linearized at a unique *Sma*I site immediately downstream of the promoter/operator. The linearized vector was treated with
35   alkaline phosphatase to prevent reclosure of the linearized ends. Genomic DNA isolated from *E. faecalis* strain OG1RF was partially digested with DNase I and "blunt-ended" by incubating with T4 DNA polymerase. Random genomic fragments between 200 and 800 base pairs in length were

selected by gel purification. The size-selected genomic fragments were added to the linearized and dephosphorylated vector at a molar ratio of 2 to 1, and ligated to form a shotgun library.

The ligated products were transformed into electrocompetent *E. coli* strain TOP10 cells (Invitrogen) and plated on LB medium with erythromycin (Erm) at 150 μg/ml. Resulting colonies

5   numbering 5×10^5 or greater were scraped and combined, and were then subjected to plasmid purification.

The purified library was then transformed into electrocompetent *E. faecalis* strain OG1RF. Resulting transformants were plated on Todd-Hewitt (TH) agar with erythromycin at 10 μg/ml in order to generate 100 to 150 platings at 500 colonies per plating. The colonies were subjected to

10   robotic picking and arrayed into wells of 384 well culture dishes. Each well contained 100 μl of THB + Erm 10 μg/ml. Inoculated 384 well dishes were incubated 16 hours at room temperature, and each well was robotically gridded onto solid TH agar + Erm with or without 5% xylose. Gridded plates were incubated 16 hours at 37°C, and then manually scored for arrayed colonies that were growth-compromised in the presence of xylose.

15   Arrayed colonies that were growth-sensitive on medium containing 5% xylose, yet were able to grow on similar medium lacking xylose, were subjected to further growth sensitivity analysis. Colonies from the plate lacking xylose were manually picked and inoculated into individual wells of a 96 well culture dish containing THB + Erm 10, and were incubated for 16 hours at 30°C. These cultures were robotically diluted 1/100 into fresh medium and allowed to

20   incubate for 4 hours at 37°C, after which they were subjected to serial dilution on plates containing 5% xylose or plates lacking xylose. After growth for 16 hours at 37°C, the arrays of serially diluted spots that resulted were compared between the two media. Colonies that grew similarly on both media were scored as a negative and corresponding colonies were no longer considered. Colonies on xylose medium that failed to grow to the same serial dilution compared to those on the non-

25   xylose plate were given a score based on the differential. For example, colonies on xylose medium that only grow to a serial dilution of -4 while they were able to grow to -8 on the non-xylose plate, then the corresponding transformant colony received a score of "4" representing the log difference in growth observed.

Following the identification of those vectors that, upon induction, negatively impacted *E.*

30   *faecalis* growth or proliferation, the inserts or nucleic acid fragments contained in those expression vectors were isolated for subsequent characterization. The inserts in the vectors of interest were subjected to nucleotide sequence determination.

It will be appreciated that other restriction enzymes and other endonucleases or methodologies may be used to generate random genomic fragments. In addition, random genomic

35   fragments may be generated by mechanical shearing. Sonication and nebulization are two such techniques commonly used for mechanical shearing of DNA.

EXAMPLE 2

Nucleotide Sequence Determination of Identified Clones Transribing Nucleic Acid Fragments with

Detrimental Effects on *Escherichia coli, Staphylococcus aureus, Enterococcus faecalis, Klebsiella*

pneumoniae, Pseudomonas aeruginosa or *Salmonella typhimurium* Proliferation

5   Plasmids from clones that received a dilution plating score of "2" or greater were isolated to

obtain the genomic DNA insert responsible for growth inhibition as follows.

The nucleotide sequences of the nucleic acid sequences which inhibited the growth of

Escherichia coli were determined using plasmid DNA isolated using QIAPREP (Qiagen, Valencia,

CA) and methods supplied by the manufacturer. The primers used for sequencing the inserts were 5' -

10   TGTTTATCAGACCGCTT - 3' (SEQ ID NO: 78586) and 5' - ACAATTTCACACAGCCTC - 3'

(SEQ ID NO: 78587). These sequences flank the polylinker in pLEX5BA.

The nucleotide sequences of the nucleic acid sequences which inhibited the growth of

Staphylococcus aureus were determined as follows. *Staphylococcus aureus* were grown in standard

laboratory media (LB or TB with 15 ug/ml Chloramphenicol to select for the plasmid). Growth

15   was carried out at 37°C overnight in culture tubes or 2 ml deep well microtiter plates.

Lysis of *Staphylococcus aureus* was performed as follows. Cultures (2-5 ml) were

centrifuged and the cell pellets resuspended in 1.5 mg/ml solution of lysostaphin (20 μl/ml of

original culture) followed by addition of 250 μl of resuspension buffer (Qiagen). Alternatively, cell

pellets were resuspended directly in 250 μl of resuspension buffer (Qiagen) to which 5-20 μl of a 1

20   mg/ml lysostaphin solution were added.

DNA was isolated using Qiagen miniprep kits or Wizard (Qiagen) miniprep kits according

to the instructions provided by the manufacturer.

The genomic DNA inserts were amplified from the purified plasmids by PCR as follows.

1 μl of Qiagen purified plasmid was put into a total reaction volume of 25 μl Qiagen Hot

25   Start PCR mix. For *Staphylococcus aureus*, the following primers were used in the PCR reaction:

pXylT5F: CAGCAGTCTGAGTTATAAAATAG (SEQ ID NO: 78588)

LexL TGTTTTATCAGACCGCTT (SEQ ID NO: 78589)

Similar methods were conducted for *Salmonella typhimurium* and *Klebsiella pneumoniae.*

For *Salmonella typhimurium* and *Klebsiella pneumoniae* the following primers were used:

30   5' - TGTTTTATCAGACCGCTT - 3' (SEQ ID NO: 78589) and

5'-ACAATTTCACACAGCCTC-3' (SEQ ID NO: 78587)

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 95° C 15 min

Step 2. 94° C 45 sec

35   Step 3. 54° C 45 sec

Step 4. 72° C 1 minute

Step 5. Return to step 2, 29 times

Step 6. 72° C 10 minutes

Step 7. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

For *Pseudomonas aeruginosa,* plasmids from transformant colonies that received a dilution

5   plating score of "2" or greater were isolated to obtain the genomic DNA insert responsible for growth inhibition as follows. *Pseudomonas aeruginosa* were grown in standard laboratory media (LB with carbenicillin at 100 µg/ml or Streptomycin 40 µg/ml to select for the plasmid). Growth was carried out at 30°C overnight in 100 ul culture wells in microtiter plates. To amplify insert DNA 2 ul of culture were placed into 25 ul Qiagen Hot Start PCR mix. PCR reactions were in 96

10   well microtiter plates. For plasmid pEP5S the following primers were used in the PCR reaction:

T7L1+: GTCGGCGATATAGGCGCCAGCAACCG (SEQ ID NO: 78590)

pStrA3: ATAATCGAGCATGAGTATCATACG (SEQ ID NO: 78591)

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 95° C 15 min

15   Step 2. 94° C 45 sec

Step 3. 54° C 45 sec

Step 4. 72° C 1 minute

Step 5. Return to step 2, 29 times

Step 6. 72° C 10 minutes

20   Step 7. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

The purified PCR products were then directly cycle sequenced with Qiagen Hot Start PCR mix. The following primers were used in the sequencing reaction:

25   T7/L2: ATGCGTCCGGCGTAGAGGAT (SEQ ID NO: 78592)

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 94° C 15 min

Step 2. 96° C 10 sec

Step 3. 50° C 5 sec

30   Step 4. 60 C 4 min

Step 5. Return to step 2, 24 times

Step 6. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

35   For *E. faecalis,* plasmids from transformant colonies that received a dilution plating score of "2" or greater were isolated to obtain the genomic DNA insert responsible for growth inhibition as follows. *E. faecalis* were grown in THB 10 µg/ml Erm at 30°C overnight in 100 ul culture wells

in microtiter plates. To amplify insert DNA 2 ul of culture were placed into 25 µl Qiagen Hot Start PCR mix. PCR reactions were in 96 well microtiter plates. The following primers were used in the PCR reaction:

pXylT5: CAGCAGTCTGAGTTATAAAATAG (SEQ ID NO: 78588) and the

5   pEP/pAK1 primer.

PCR was carried out in a PE GenAmp with the following cycle times:

Step 1. 95° C 15 min

Step 2. 94° C 45 sec

Step 3. 54° C 45 sec

10   Step 4. 72° C 1 minute

Step 5. Return to step 2, 29 times

Step 6. 72° C 10 minutes

Step 7. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's

15   instructions.

The purified PCR products were then directly cycle sequenced with Qiagen Hot Start PCR mix. The following primers were used in the PCR reaction:

pXylT5: CAGCAGTCTGAGTTATAAAATAG (SEQ ID NO: 78588)

PCR was carried out in a PE GenAmp with the following cycle times:

20   Step 1. 94° C 15 min

Step 2. 96° C 10 sec

Step 3. 50° C 5 sec

Step 4. 60° C 4 min

Step 5. Return to step 2, 24 times

25   Step 6. 4° C hold

The PCR products were cleaned using Qiagen Qiaquick PCR plates according to the manufacturer's instructions.

The amplified genomic DNA inserts from each of the above procedures were subjected to automated sequencing. Sequence identification numbers (SEQ ID NOs) and clone names for the

30   identified inserts are listed in Table IA and discussed below.

TABLE IA

SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name
1	E3M10000001B01	1243	P33-1.C22	2485	E1M10000260G02	3727	P1M10000105C04	4969	S1M10000025G06
2	E3M10000001A02	1244	X3S107-17	2486	E1M10000260F04	3728	P1M10000105D04	4970	S1M10000025H06
3	E3M10000001B02	1245	P35-7	2487	E1M10000260A05	3729	P1M10000105C05	4971	S1M10000025H07
4	E3M10000001C02	1246	X3S118-9	2488	E1M10000260C05	3730	P1M10000105B06	4972	S1M10000025A08
5	E3M10000001D02	1247	X3S163-1	2489	E1M10000260E05	3731	P1M10000105C08	4973	S1M10000025D08
6	E3M10000001E02	1248	X3S204-7	2490	E1M10000260C07	3732	P1M10000105H08	4974	S1M10000025F08
7	E3M10000001F02	1249	X3S177-4	2491	E1M10000260G07	3733	P1M10000105D09	4975	S1M10000025H08
8	E3M10000001G02	1250	P342-3	2492	E1M10000260B08	3734	P1M10000110E01	4976	S1M10000025A09
9	E3M10000001H02	1251	SC21.1	2493	E1M10000260D08	3735	P1M10000110F01	4977	S1M10000025B09
10	E3M10000001E03	1252	SC17.1	2494	E1M10000260E08	3736	P1M10000110G01	4978	S1M10000025C09
11	E3M10000001G03	1253	SC13.1	2495	E1M10000260E09	3737	P1M10000110B02	4979	S1M10000025D09
12	E3M10000001H03	1254	MC9.6	2496	E1M10000260C10	3738	P1M10000110B03	4980	S1M10000025E09
13	E3M10000001D04	1255	Z60-P16	2497	E1M10000260D10	3739	P1M10000110F03	4981	S1M10000025F09
14	E3M10000001E04	1256	Z86-I21	2498	E1M10000260E10	3740	P1M10000110G03	4982	S1M10000025A10
15	E3M10000001F04	1257	E1M10000109A02	2499	E1M10000260G10	3741	P1M10000110D04	4983	S1M10000025C10
16	E3M10000001G04	1258	E1M10000109A11	2500	E1M10000260H10	3742	P1M10000110F04	4984	S1M10000025D10
17	E3M10000001H04	1259	E1M10000101F05	2501	E1M10000260H11	3743	P1M10000110B05	4985	S1M10000025F10
18	E3M10000001B05	1260	E1M10000101D06	2502	E1M10000260B12	3744	P1M10000110E05	4986	S1M10000025G10
19	E3M10000001D05	1261	E1M10000101A07	2503	E1M10000260D12	3745	P1M10000110B07	4987	S1M10000025H10
20	E3M10000001G05	1262	E1M10000101H07	2504	E1M10000260G12	3746	P1M10000110B08	4988	S1M10000025C11
21	E3M10000001A06	1263	E1M10000101H09	2505	E1M10000261F01	3747	P1M10000110F08	4989	S1M10000025E11
22	E3M10000001F06	1264	E1M10000101C12	2506	E1M10000261B02	3748	P1M10000110A09	4990	S1M10000025B12
23	E3M10000001B08	1265	E1M10000103B04	2507	E1M10000261H02	3749	P1M10000110E09	4991	S1M10000025F12
24	E3M10000001E08	1266	E1M10000103D11	2508	E1M10000261G04	3750	P1M10000110F09	4992	S1M10000026C01
25	E3M10000001C09	1267	E1M10000110G01	2509	E1M10000261H05	3751	P1M10000100F01	4993	S1M10000026E01
26	E3M10000001D09	1268	E1M10000110H01	2510	E1M10000261G06	3752	P1M10000098A02	4994	S1M10000026F01
27	E3M10000001E09	1269	E1M10000110E09	2511	E1M10000261H06	3753	P1M10000098B02	4995	S1M10000026G01
28	E3M10000001B10	1270	E1M10000110A12	2512	E1M10000261D08	3754	P1M10000098A03	4996	S1M10000026H01
29	E3M10000004D01	1271	E1M10000112F05	2513	E1M10000261F08	3755	P1M10000098D03	4997	S1M10000026A02
30	E3M10000004G01	1272	E1M10000113F02	2514	E1M10000261C09	3756	P1M10000098E04	4998	S1M10000026B02
31	E3M10000004D02	1273	E1M10000113A11	2515	E1M10000261H09	3757	P1M10000098G04	4999	S1M10000026H02
32	E3M10000004C03	1274	E1M10000111C03	2516	E1M10000261E10	3758	P1M10000098A05	5000	S1M10000026B03
33	E3M10000004A04	1275	E1M10000111E04	2517	E1M10000262E01	3759	P1M10000098C05	5001	S1M10000026F03

SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name
34	E3M10000004F08	1276	E1M10000111F09	2518	E1M10000262C02	3760	P1M10000098G06	5002	S1M10000026G03
35	E3M10000004D10	1277	E1M10000115H01	2519	E1M10000262E02	3761	P1M10000098H06	5003	S1M10000026H03
36	E3M10000004F10	1278	E1M10000115G02	2520	E1M10000262F02	3762	P1M10000098C07	5004	S1M10000026A04
37	E3M10000004E11	1279	E1M10000115E03	2521	E1M10000262D03	3763	P1M10000098F07	5005	S1M10000026D04
38	E3M10000004H11	1280	E1M10000115G04	2522	E1M10000262G04	3764	P1M10000098A08	5006	S1M10000026F04
39	E3M10000005B01	1281	E1M10000115C06	2523	E1M10000262C05	3765	P1M10000098G08	5007	S1M10000026G04
40	E3M10000005C01	1282	E1M10000116B01	2524	E1M10000262A06	3766	P1M10000098H09	5008	S1M10000026H04
41	E3M10000005E01	1283	E1M10000106D02	2525	E1M10000262A07	3767	P1M10000098B11	5009	S1M10000026A05
42	E3M10000005E02	1284	E1M10000106G02	2526	E1M10000262E07	3768	P1M10000098C12	5010	S1M10000026B05
43	E3M10000005C03	1285	E1M10000106E04	2527	E1M10000262E08	3769	P1M10000099D01	5011	S1M10000026D05
44	E3M10000005D03	1286	E1M10000106F05	2528	E1M10000262B10	3770	P1M10000099G03	5012	S1M10000026F05
45	E3M10000005E03	1287	E1M10000106H05	2529	E1M10000262H10	3771	P1M10000099A09	5013	S1M10000026G05
46	E3M10000005C04	1288	E1M10000106H06	2530	E1M10000262G11	3772	P1M10000099A10	5014	S1M10000026H05
47	E3M10000005D04	1289	E1M10000106A08	2531	E1M10000262D12	3773	P1M10000099E10	5015	S1M10000026A06
48	E3M10000005H04	1290	E1M10000106E09	2532	E1M10000262G12	3774	P1M10000099F10	5016	S1M10000026B06
49	E3M10000005G05	1291	E1M10000106G10	2533	E1M10000263F01	3775	P1M10000099D11	5017	S1M10000026C06
50	E3M10000005A07	1292	E1M10000106D11	2534	E1M10000263H05	3776	P1M10000106D02	5018	S1M10000026D06
51	E3M10000005F07	1293	E1M10000122B03	2535	E1M10000263C06	3777	P1M10000106F03	5019	S1M10000026F06
52	E3M10000005B08	1294	E1M10000123D05	2536	E1M10000263G06	3778	P1M10000106H03	5020	S1M10000026G06
53	E3M10000005E08	1295	E1M10000123C09	2537	E1M10000263B07	3779	P1M10000106F04	5021	S1M10000026A07
54	E3M10000005D10	1296	E1M10000123E09	2538	E1M10000263F08	3780	P1M10000106D05	5022	S1M10000026B07
55	E3M10000005F10	1297	E1M10000123H10	2539	E1M10000263A10	3781	P1M10000106E07	5023	S1M10000026C07
56	E3M10000006C01	1298	E1M10000123F11	2540	E1M10000263A11	3782	P1M10000107E02	5024	S1M10000026D07
57	E3M10000006G02	1299	E1M10000107B02	2541	E1M10000263H11	3783	P1M10000107H02	5025	S1M10000026F07
58	E3M10000006B03	1300	E1M10000107E02	2542	E1M10000263C12	3784	P1M10000107C03	5026	S1M10000026G07
59	E3M10000006D03	1301	E1M10000107G02	2543	E1M10000263D12	3785	P1M10000107A04	5027	S1M10000026H07
60	E3M10000006F04	1302	E1M10000107B03	2544	E1M10000264B02	3786	P1M10000107C04	5028	S1M10000026A08
61	E3M10000006G04	1303	E1M10000107C03	2545	E1M10000264C02	3787	P1M10000107C09	5029	S1M10000026C08
62	E3M10000006H09	1304	E1M10000107H04	2546	E1M10000264F02	3788	P1M10000107C10	5030	S1M10000026D08
63	E3M10000006E11	1305	E1M10000107G08	2547	E1M10000264D03	3789	P1M10000107D10	5031	S1M10000026F08
64	E3M10000006C12	1306	E1M10000107F09	2548	E1M10000264F03	3790	P1M10000107H10	5032	S1M10000026G08
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66	E3M10000007F01	1308	E1M10000117C12	2550	E1M10000264B04	3792	P1M10000108A02	5034	S1M10000026E09
67	E3M10000007G01	1309	E1M10000118C04	2551	E1M10000264C04	3793	P1M10000108B02	5035	S1M10000026G09
68	E3M10000007A02	1310	E1M10000118B05	2552	E1M10000264E04	3794	P1M10000108A03	5036	S1M10000026H09
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72	E3M10000007D03	1314	E1M10000119D03	2556	E1M10000264G09	3798	P1M10000108F05	5040	S1M10000026E10
73	E3M10000007H03	1315	E1M10000119A04	2557	E1M10000264D11	3799	P1M10000108F06	5041	S1M10000026F10
74	E3M10000007C04	1316	E1M10000131H01	2558	E1M10000264F11	3800	P1M10000108G06	5042	S1M10000026G10
75	E3M10000007E05	1317	E1M10000131F04	2559	E1M10000264H11	3801	P1M10000109A02	5043	S1M10000026H10
76	E3M10000007F06	1318	E1M10000131C06	2560	E1M10000264B12	3802	P1M10000109C03	5044	S1M10000026A11
77	E3M10000008E02	1319	E1M10000131B07	2561	E1M10000264C12	3803	P1M10000109E03	5045	S1M10000026B11
78	E3M10000008H02	1320	E1M10000131C07	2562	E1M10000265A02	3804	P1M10000109D04	5046	S1M10000026C11
79	E3M10000008C03	1321	E1M10000131A10	2563	E1M10000265E02	3805	P1M10000109A05	5047	S1M10000026E11
80	E3M10000008G05	1322	E1M10000131G10	2564	E1M10000265G02	3806	P1M10000109B08	5048	S1M10000026B12
81	E3M10000008C08	1323	E1M10000135B02	2565	E1M10000265D04	3807	P1M10000109H09	5049	S1M10000026C12
82	E3M10000008D08	1324	E1M10000132C01	2566	E1M10000265F04	3808	P1M10000109E10	5050	S1M10000026D12
83	E3M10000008C09	1325	E1M10000132F02	2567	E1M10000265E05	3809	P1M10000109F10	5051	S1M10000026E12
84	E3M10000008G09	1326	E1M10000132H04	2568	E1M10000265H05	3810	P1M10000109E11	5052	S1M10000026F12
85	E3M10000009D01	1327	E1M10000132G08	2569	E1M10000265C09	3811	P1M10000109B12	5053	S1M10000026G12
86	E3M10000009E02	1328	E1M10000133A06	2570	E1M10000265E09	3812	S4M10000001C01	5054	S1M10000027G01
87	E3M10000009G02	1329	E1M10000133B08	2571	E1M10000265F09	3813	S4M10000002G04	5055	S1M10000027C02
88	E3M10000009E03	1330	E1M10000133D09	2572	E1M10000265H10	3814	S4M10000002B06	5056	S1M10000027D02
89	E3M10000009E05	1331	E1M10000144B01	2573	E1M10000265A11	3815	S4M10000002G08	5057	S1M10000027E02
90	E3M10000009H06	1332	E1M10000144C02	2574	E1M10000265B11	3816	S4M10000002B09	5058	S1M10000027F02
91	E3M10000009C07	1333	E1M10000144E03	2575	E1M10000265C11	3817	S4M10000019H06	5059	S1M10000027H02
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93	E3M10000010F01	1335	E1M10000144B06	2577	E1M10000266H02	3819	S4M10000009E03	5061	S1M10000027E03
94	E3M10000010H02	1336	E1M10000144G06	2578	E1M10000266F04	3820	S4M10000009C06	5062	S1M10000027G03
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97	E3M10000010C08	1339	E1M10000144C10	2581	E1M10000266B06	3823	S4M10000009B11	5065	S1M10000027G04
98	E3M10000010G09	1340	E1M10000145E01	2582	E1M10000266F11	3824	S4M10000009F11	5066	S1M10000027H04
99	E3M10000010G10	1341	E1M10000146H01	2583	E1M10000267F01	3825	S4M10000009G11	5067	S1M10000027A05
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101	E3M10000011B03	1343	E1M10000146E05	2585	E1M10000267A05	3827	S4M10000010H04	5069	S1M10000027D05
102	E3M10000011D03	1344	E1M10000124E02	2586	E1M10000267B05	3828	S4M10000010B05	5070	S1M10000027E05
103	E3M10000011C07	1345	E1M10000124G03	2587	E1M10000267A07	3829	S4M10000010D07	5071	S1M10000027F05
104	E3M10000011A09	1346	E1M10000124G04	2588	E1M10000267H07	3830	S4M10000010D08	5072	S1M10000027G05
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107	E3M100000012C01	1349	E1M100000124D09	2591	E1M100000267H09	3833	S4M100000010D09	5075	S1M100000027C06
108	E3M100000012B02	1350	E1M100000125A02	2592	E1M100000267A10	3834	S4M100000010D10	5076	S1M100000027D06
109	E3M100000012G02	1351	E1M100000125F07	2593	E1M100000267E10	3835	S4M100000011F05	5077	S1M100000027E06
110	E3M100000012F05	1352	E1M100000125F09	2594	E1M100000267C11	3836	S4M100000011D08	5078	S1M100000027F06
111	E3M100000012F06	1353	E1M100000120F01	2595	E1M100000267E11	3837	S4M100000011A09	5079	S1M100000027G06
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113	E3M100000012F07	1355	E1M100000120E05	2597	E1M100000267E12	3839	S4M100000011E10	5081	S1M100000027B07
114	E3M100000012G07	1356	E1M100000120A06	2598	E1M100000268F03	3840	S4M100000011F10	5082	S1M100000027D07
115	E3M100000012B08	1357	E1M100000120F06	2599	E1M100000268D04	3841	S4M100000011D11	5083	S1M100000027E07
116	E3M100000012D10	1358	E1M100000120A10	2600	E1M100000268E04	3842	S4M100000012H03	5084	S1M100000027G07
117	E3M100000012F10	1359	E1M100000120G10	2601	E1M100000268F06	3843	S4M100000012B06	5085	S1M100000027H07
118	E3M100000013D02	1360	E1M100000136C01	2602	E1M100000268E07	3844	S4M100000012B12	5086	S1M100000027A08
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120	E3M100000013H03	1362	E1M100000136E02	2604	E1M100000268B08	3846	S4M100000013H02	5088	S1M100000027C08
121	E3M100000013C05	1363	E1M100000136B03	2605	E1M100000268D08	3847	S4M100000014H02	5089	S1M100000027D08
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123	E3M100000013H05	1365	E1M100000121D01	2607	E1M100000268B09	3849	S4M100000014D07	5091	S1M100000027F08
124	E3M100000013A06	1366	E1M100000121G05	2608	E1M100000268E09	3850	S4M100000015E09	5092	S1M100000027G08
125	E3M100000013A07	1367	E1M100000121F06	2609	E1M100000268F09	3851	S4M100000015B11	5093	S1M100000027H08
126	E3M100000013D08	1368	E1M100000121E07	2610	E1M100000268G09	3852	S4M100000016A02	5094	S1M100000027B09
127	E3M100000013E08	1369	E1M100000121D08	2611	E1M100000268E10	3853	S4M100000020F08	5095	S1M100000027C09
128	E3M100000013D10	1370	E1M100000129G04	2612	E1M100000268A11	3854	S4M100000021E07	5096	S1M100000027D09
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130	E3M100000014G09	1372	E1M100000129F11	2614	E1M100000268G12	3856	S4M100000022D04	5098	S1M100000027F09
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132	E3M100000014E12	1374	E1M100000126F12	2616	E1M100000269B02	3858	S4M100000022G07	5100	S1M100000027H09
133	E3M100000015B04	1375	E1M100000127D03	2617	E1M100000269D03	3859	S4M100000022D12	5101	S1M100000027D10
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135	E3M100000015E12	1377	E1M100000127D09	2619	E1M100000269H04	3861	S4M100000024G01	5103	S1M100000027A11
136	E3M100000016A03	1378	E1M100000137C03	2620	E1M100000269B05	3862	S4M100000024G04	5104	S1M100000027B11
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138	E3M100000016A04	1380	E1M100000137E07	2622	E1M100000269H05	3864	S4M100000024F08	5106	S1M100000027E11
139	E3M100000016G05	1381	E1M100000137B08	2623	E1M100000269A06	3865	S4M100000024G09	5107	S1M100000027G11
140	E3M100000016H05	1382	E1M100000137G09	2624	E1M100000269E07	3866	S4M100000024C11	5108	S1M100000027H11
141	E3M100000016F06	1383	E1M100000137C11	2625	E1M100000269F07	3867	S4M100000025E02	5109	S1M100000028B01

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145	E3M10000017D09	1387	E1M10000140B05	2629	E1M10000269G12	3871	S4M10000025F12	5113	S1M10000028A02
146	E3M10000018E01	1388	E1M10000142H03	2630	E1M10000271F02	3872	S4M10000026C01	5114	S1M10000028B02
147	E3M10000018C02	1389	E1M10000142D05	2631	E1M10000271H02	3873	S4M10000026E03	5115	S1M10000028C02
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164	E3M10000021E10	1406	E1M10000155B11	2648	E1M10000272A06	3890	S4M10000034A09	5132	S1M10000028D05
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166	E3M10000021A11	1408	E1M10000152B01	2650	E1M10000272H07	3892	S4M10000035B01	5134	S1M10000028G05
167	E3M10000021G11	1409	E1M10000152G01	2651	E1M10000272B08	3893	S4M10000035D01	5135	S1M10000028H05
168	E3M10000021H11	1410	E1M10000152G03	2652	E1M10000272C08	3894	S4M10000035F02	5136	S1M10000028A06
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171	E3M10000022B04	1413	E1M10000152B05	2655	E1M10000272H08	3897	S4M10000035A09	5139	S1M10000028D06
172	E3M10000022D04	1414	E1M10000152B06	2656	E1M10000272C09	3898	S4M10000036F06	5140	S1M10000028F06
173	E3M10000022B05	1415	E1M10000152C08	2657	E1M10000272D09	3899	S4M10000036B09	5141	S1M10000028G06
174	E3M10000022C05	1416	E1M10000152H08	2658	E1M10000272G09	3900	S4M10000036H11	5142	S1M10000028D07
175	E3M10000022F05	1417	E1M10000152E09	2659	E1M10000272H09	3901	S4M10000037A03	5143	S1M10000028F07
176	E3M10000022C06	1418	E1M10000153H03	2660	E1M10000273E01	3902	S4M10000037A08	5144	S1M10000028H07
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180	E3M10000022F08	1422	E1M10000153A09	2664	E1M10000273E05	3906	S4M10000033G05	5148	S1M10000028D08
181	E3M10000022C09	1423	E1M10000156D07	2665	E1M10000273G05	3907	S4M10000033F08	5149	S1M10000028E08
182	E3M10000022A11	1424	E1M10000156B08	2666	E1M10000273C07	3908	S4M10000033G09	5150	S1M10000028G08
183	E3M10000022B11	1425	E1M10000156B09	2667	E1M10000273C08	3909	S4M10000033B10	5151	S1M10000028H08
184	E3M10000022G12	1426	E1M10000156G12	2668	E1M10000273G11	3910	S1M10000001D01	5152	S1M10000028B09
185	E3M10000023B02	1427	E1M10000157F01	2669	E1M10000273H11	3911	S1M10000001F01	5153	S1M10000028D09
186	E3M10000023D02	1428	E1M10000157B02	2670	E1M10000273B12	3912	S1M10000001D02	5154	S1M10000029F01
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189	E3M10000023A03	1431	E1M10000160C02	2673	E1M10000274E01	3915	S1M10000001A04	5157	S1M10000029A02
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194	E3M10000023G04	1436	E1M10000160H05	2678	E1M10000274F07	3920	S1M10000001D07	5162	S1M10000029F02
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196	E3M10000023B06	1438	E1M10000160D07	2680	E1M10000274D08	3922	S1M10000001F08	5164	S1M10000029A03
197	E3M10000023C06	1439	E1M10000160G07	2681	E1M10000274F08	3923	S1M10000001A09	5165	S1M10000029B03
198	E3M10000023A07	1440	E1M10000160B09	2682	E1M10000274F09	3924	S1M10000001E09	5166	S1M10000029C03
199	E3M10000023E07	1441	E1M10000160C09	2683	E1M10000274D10	3925	S1M10000001F09	5167	S1M10000029G03
200	E3M10000023C08	1442	E1M10000160E09	2684	E1M10000274D11	3926	S1M10000001A10	5168	S1M10000029A04
201	E3M10000023H08	1443	E1M10000160E10	2685	E1M10000274D12	3927	S1M10000001F10	5169	S1M10000029B04
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203	E3M10000023C09	1445	E1M10000160F11	2687	E1M10000275C01	3929	S1M10000001E11	5171	S1M10000029G04
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212	E3M10000025B01	1454	E1M10000163H01	2696	E1M10000275E05	3938	S1M10000002F02	5180	S1M10000029C07
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253	E3M10000027G08	1495	E1M10000169H02	2737	E1M10000313A02	3979	S1M10000003G04	5221	S1M10000030A05
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276	E3M10000028B05	1518	E1M10000187D01	2760	E1M10000314H04	4002	S1M10000003B12	5244	S1M10000030C10
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284	E3M10000028D06	1526	E1M10000187F11	2768	E1M10000314G10	4010	S1M10000004F02	5252	S1M10000030G11
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213

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344	E3M10000029G10	1586	E1M10000194F03	2828	E1M10000278C08	4070	S1M10000005A08	5312	S1M10000032E03
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356	E3M10000030G01	1598	E1M10000194B10	2840	E1M10000279C10	4082	S1M10000005B12	5324	S1M10000032A06
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362	E3M10000030H03	1604	E1M10000195B03	2846	E1M10000280C03	4088	S1M10000006G02	5330	S1M10000032C07
363	E3M10000030B04	1605	E1M10000195G03	2847	E1M10000280C05	4089	S1M10000006A03	5331	S1M10000032D07
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368	E3M10000030A05	1610	E1M10000195A08	2852	E1M10000280A07	4094	S1M10000006G03	5336	S1M10000032D08
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370	E3M10000030D05	1612	E1M10000195D10	2854	E1M10000280G07	4096	S1M10000006B04	5338	S1M10000032G08
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373	E3M10000030D06	1615	E1M10000195F11	2857	E1M10000280C09	4099	S1M10000006F04	5341	S1M10000032D09
374	E3M10000030F06	1616	E1M10000196B02	2858	E1M10000280H09	4100	S1M10000006G04	5342	S1M10000032E09
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376	E3M10000030H06	1618	E1M10000196E02	2860	E1M10000280C11	4102	S1M10000006D05	5344	S1M10000032A10
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388	E3M10000030E09	1630	E1M10000196C08	2872	E1M10000281D11	4114	S1M10000006A08	5356	S1M10000032B12
389	E3M10000030G09	1631	E1M10000196A10	2873	E1M10000281G11	4115	S1M10000006E08	5357	S1M10000032C12
390	E3M10000030B10	1632	E1M10000196B10	2874	E1M10000281D12	4116	S1M10000006A10	5358	S1M10000032E12
391	E3M10000030D10	1633	E1M10000196D11	2875	E1M10000281F12	4117	S1M10000006B10	5359	S1M10000032F12
392	E3M10000030E10	1634	E1M10000196D12	2876	E1M10000282D01	4118	S1M10000006C10	5360	S1M10000032G12
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396	E3M10000030B11	1638	E1M10000197D04	2880	E1M10000282F03	4122	S1M10000006A12	5364	S1M10000033D02
397	E3M10000030H11	1639	E1M10000197B05	2881	E1M10000282C04	4123	S1M10000006B12	5365	S1M10000033F02
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409	E3M10000031E03	1651	E1M10000197B12	2893	E1M10000282G08	4135	S1M10000007G05	5377	S1M10000033A07
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424	E3M10000031E07	1666	E1M10000199F02	2908	E1M10000283B05	4150	S1M10000008F01	5392	S1M10000033H10
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428	E3M10000031A08	1670	E1M10000199C06	2912	E1M10000283A07	4154	S1M10000008B03	5396	S1M10000033H11
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446	E3M10000032D01	1688	E1M10000200A03	2930	E1M10000303A02	4172	S1M10000008E09	5414	S1M10000034G03
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450	E3M10000032C02	1692	E1M10000200C07	2934	E1M10000303H03	4176	S1M10000008F10	5418	S1M10000034F04
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462	E3M10000032B05	1704	E1M10000201D06	2946	E1M10000304H02	4188	S1M10000009E02	5430	S1M10000034H06
463	E3M10000032E05	1705	E1M10000201G06	2947	E1M10000304A03	4189	S1M10000009F02	5431	S1M10000034B07
464	E3M10000032F05	1706	E1M10000201H07	2948	E1M10000304C03	4190	S1M10000009G02	5432	S1M10000034C07
465	E3M10000032G05	1707	E1M10000201G08	2949	E1M10000304E03	4191	S1M10000009H02	5433	S1M10000034D07

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469	E3M10000032D06	1711	E1M10000201A10	2953	E1M10000304A06	4195	S1M10000009G03	5437	S1M10000034H07
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485	E3M10000032H10	1727	E1M10000203C12	2969	E1M10000306C05	4211	S1M10000009A07	5453	S1M10000034F10
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487	E3M10000032B11	1729	E1M10000204F02	2971	E1M10000306D09	4213	S1M10000009C07	5455	S1M10000034A11
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680	E3M10000036F09	1922	E1M10000216B10	3164	E1M10000295G01	4406	S1M10000014E05	5648	S1M10000038D08
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684	E3M10000036D10	1926	E1M10000216D12	3168	E1M10000295H04	4410	S1M10000014C06	5652	S1M10000038B09
685	E3M10000036F10	1927	E1M10000217D02	3169	E1M10000295A07	4411	S1M10000014D06	5653	S1M10000038D09
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687	E3M10000036H10	1929	E1M10000217H02	3171	E1M10000295C07	4413	S1M10000014H06	5655	S1M10000038H09
688	E3M10000036B11	1930	E1M10000217C04	3172	E1M10000295D08	4414	S1M10000014A07	5656	S1M10000038C10
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714	E3M10000037H05	1956	E1M10000219C01	3198	E1M10000296H07	4440	S1M10000014B12	5682	S1M10000039G03
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716	E3M10000037C06	1958	E1M10000219E05	3200	E1M10000296F08	4442	S1M10000014E12	5684	S1M10000039C04
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724	E3M10000037G07	1966	E1M10000219A09	3208	E1M10000298C01	4450	S1M10000015D02	5692	S1M10000039H06
725	E3M10000037H07	1967	E1M10000219E09	3209	E1M10000298G01	4451	S1M10000015E02	5693	S1M10000039A07
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743	E3M10000038D01	1985	E1M10000220F06	3227	E1M10000298F11	4469	S1M10000015A06	5711	S1M10000039E10
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774	E3M10000038G07	2016	E1M10000225F04	3258	E1M10000294C04	4500	S1M10000015E12	5742	S1M10000040A05
775	E3M10000038H07	2017	E1M10000225A06	3259	E1M10000294F04	4501	S1M10000016C01	5743	S1M10000040C05
776	E3M10000038A08	2018	E1M10000225B06	3260	E1M10000294H04	4502	S1M10000016D01	5744	S1M10000040D05
777	E3M10000038B08	2019	E1M10000225B07	3261	E1M10000294D05	4503	S1M10000016G01	5745	S1M10000040E05
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784	E3M10000038H09	2026	E1M10000226E01	3268	E1M10000294B09	4510	S1M10000016G03	5752	S1M10000040B07
785	E3M10000038A10	2027	E1M10000226B02	3269	E1M10000294E09	4511	S1M10000016H03	5753	S1M10000040C07
786	E3M10000038C10	2028	E1M10000226C02	3270	E1M10000294F09	4512	S1M10000016A04	5754	S1M10000040E07
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824	E3M10000039F06	2066	E1M10000232G08	3308	E1M10000309F12	4550	S1M10000016H10	5792	S1M10000041B06
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923	E3M10000041D06	2165	E1M10000239F04	3407	E1M10000317C05	4649	S1M10000018H10	5891	S1M10000043E08
924	E3M10000041F06	2166	E1M10000239C05	3408	K1M10000002F02	4650	S1M10000018A11	5892	S1M10000043F08
925	E3M10000041G06	2167	E1M10000239H05	3409	K1M10000003C01	4651	S1M10000018B11	5893	S1M10000043B09
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927	E3M10000041A07	2169	E1M10000239A08	3411	K1M10000007F01	4653	S1M10000018D11	5895	S1M10000043G09
928	E3M10000041C07	2170	E1M10000239D08	3412	K1M10000008C10	4654	S1M10000018E11	5896	S1M10000043H09
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930	E3M10000041F07	2172	E1M10000239H08	3414	K1M10000013E06	4656	S1M10000018C12	5898	S1M10000043B10
931	E3M10000041G07	2173	E1M10000239H10	3415	K1M10000015E05	4657	S1M10000018D12	5899	S1M10000043D10
932	E3M10000041A08	2174	E1M10000239G11	3416	K1M10000019D06	4658	S1M10000018E12	5900	S1M10000043E10
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936	E3M10000041F08	2178	E1M10000240A04	3420	K1M10000030C04	4662	S1M10000019C01	5904	S1M10000043C11
937	E3M10000041G08	2179	E1M10000240D06	3421	K1M10000030C07	4663	S1M10000019D01	5905	S1M10000043E11
938	E3M10000041H08	2180	E1M10000240G07	3422	K1M10000030E07	4664	S1M10000019E01	5906	S1M10000043H11
939	E3M10000041A09	2181	E1M10000240C08	3423	K1M10000032E11	4665	S1M10000019F01	5907	S1M10000043A12
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941	E3M10000041C09	2183	E1M10000240B10	3425	K1M10000033B02	4667	S1M10000019D02	5909	S1M10000043C12
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967	E3M10000042G01	2209	E1M10000242E12	3451	P1M10000026H02	4693	S1M10000019C08	5935	S1M10000044A08
968	E3M10000042A02	2210	E1M10000243F03	3452	P1M10000026F04	4694	S1M10000019F08	5936	S1M10000044B08
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972	E3M10000042A03	2214	E1M10000243F06	3456	P1M10000026G09	4698	S1M10000019B09	5940	S1M10000044G08
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976	E3M10000042C04	2218	E1M10000243B10	3460	P1M10000028B01	4702	S1M10000019B10	5944	S1M10000044E09
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998	E3M10000042E12	2240	E1M10000244F12	3482	P1M10000039G12	4724	S1M10000020H04	5966	S1M10000045C02
999	E3M10000042F12	2241	E1M10000245C01	3483	P1M10000040C01	4725	S1M10000020A05	5967	S1M10000045B03
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1004	E3M10000043A02	2246	E1M10000245B04	3488	P1M10000040E10	4730	S1M10000020B06	5972	S1M10000045E04
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1009	E3M10000043B03	2251	E1M10000245F06	3493	P1M10000042E08	4735	S1M10000020A07	5977	S1M10000045A06
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1018	E3M10000043B06	2260	E1M10000245B12	3502	P1M10000046C09	4744	S1M10000020H08	5986	S1M10000045D08
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1020	E3M10000043H06	2262	E1M10000245E12	3504	P1M10000047H02	4746	S1M10000020C09	5988	S1M10000045F08
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1040	E3M10000043G10	2282	E1M10000247E02	3524	P1M10000055A11	4766	S1M10000021G01	6008	S1M10000045E12
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1050	E3M10000044E01	2292	E1M10000247G07	3534	P1M10000062H01	4776	S1M10000021H04	6018	S1M10000046D02
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1056	E3M10000047C08	2298	E1M10000248G01	3540	P1M10000062D07	4782	S1M10000021H05	6024	S1M10000046D03
1057	E3M10000047D08	2299	E1M10000248A02	3541	P1M10000062D08	4783	S1M10000021A06	6025	S1M10000046G03
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1061	E3M10000050B02	2303	E1M10000248A06	3545	P1M10000062C12	4787	S1M10000021F06	6029	S1M10000046D04
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1068	E3M10000050E05	2310	E1M10000249F02	3552	P1M10000064E05	4794	S1M10000021A08	6036	S1M10000046A06
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1071	E3M10000050A06	2313	E1M10000249G05	3555	P1M10000064G12	4797	S1M10000021H08	6039	S1M10000046B07
1072	E3M10000050C06	2314	E1M10000249C06	3556	P1M10000065F01	4798	S1M10000021A09	6040	S1M10000046C07
1073	E3M10000050D06	2315	E1M10000249D06	3557	P1M10000065C03	4799	S1M10000021D09	6041	S1M10000046E07
1074	E3M10000050F06	2316	E1M10000249A07	3558	P1M10000065A04	4800	S1M10000021E09	6042	S1M10000046G07
1075	E3M10000050H06	2317	E1M10000249C07	3559	P1M10000065C05	4801	S1M10000021F09	6043	S1M10000046A08
1076	E3M10000050A07	2318	E1M10000249B08	3560	P1M10000065D06	4802	S1M10000021A10	6044	S1M10000046B08
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1081	E3M10000050H07	2323	E1M10000249E10	3565	P1M10000066A10	4807	S1M10000021F11	6049	S1M10000046A09
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1088	E3M10000050G09	2330	E1M10000250A04	3572	P1M10000067F05	4814	S1M10000022B02	6056	S1M10000046F10
1089	E3M10000050H09	2331	E1M10000250E04	3573	P1M10000067G05	4815	S1M10000022C02	6057	S1M10000046G10
1090	E3M10000050B10	2332	E1M10000250H04	3574	P1M10000067A06	4816	S1M10000022A03	6058	S1M10000046H10
1091	E3M10000051C01	2333	E1M10000250A05	3575	P1M10000067C06	4817	S1M10000022B03	6059	S1M10000046A11
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1093	E3M10000051C03	2335	E1M10000250G07	3577	P1M10000068G01	4819	S1M10000022D03	6061	S1M10000046C11
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1095	E3M10000051H03	2337	E1M10000250G09	3579	P1M10000068F04	4821	S1M10000022G03	6063	S1M10000046A12
1096	E3M10000051A04	2338	E1M10000250B10	3580	P1M10000068H05	4822	S1M10000022H03	6064	S1M10000046B12
1097	E3M10000051B04	2339	E1M10000250E10	3581	P1M10000068F08	4823	S1M10000022C04	6065	S1M10000046C12
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1103	E3M10000051D06	2345	E1M10000251F04	3587	P1M10000070E03	4829	S1M10000022E05	6071	S1M10000047G01
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1108	E3M10000051F07	2350	E1M10000251B08	3592	P1M10000070D08	4834	S1M10000022F06	6076	S1M10000047F02
1109	E3M10000051A08	2351	E1M10000251H08	3593	P1M10000070B10	4835	S1M10000022H06	6077	S1M10000047G02
1110	E3M10000051B08	2352	E1M10000251H09	3594	P1M10000070G12	4836	S1M10000022B07	6078	S1M10000047A03
1111	E3M10000051D08	2353	E1M10000251C10	3595	P1M10000071B01	4837	S1M10000022C07	6079	S1M10000047C03
1112	E3M10000051H08	2354	E1M10000251F11	3596	P1M10000071C01	4838	S1M10000022D07	6080	S1M10000047D03
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1115	E3M10000051D09	2357	E1M10000251D12	3599	P1M10000071E04	4841	S1M10000022H07	6083	S1M10000047G03
1116	E3M10000051E09	2358	E1M10000251F12	3600	P1M10000073G03	4842	S1M10000022A08	6084	S1M10000047H03
1117	E3M10000051G09	2359	E1M10000252D01	3601	P1M10000073D04	4843	S1M10000022B08	6085	S1M10000047A04
1118	E3M10000051H09	2360	E1M10000252G02	3602	P1M10000073A06	4844	S1M10000022C08	6086	S1M10000047B04
1119	E3M10000051A10	2361	E1M10000252C03	3603	P1M10000073D09	4845	S1M10000022D08	6087	S1M10000047C04
1120	E3M10000051B10	2362	E1M10000252G03	3604	P1M10000073B10	4846	S1M10000022F08	6088	S1M10000047D04
1121	E3M10000051D10	2363	E1M10000252B04	3605	P1M10000074B01	4847	S1M10000022G08	6089	S1M10000047E04
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1126	E3M10000051D11	2368	E1M10000252D06	3610	P1M10000074G12	4852	S1M10000022B11	6094	S1M10000047B05
1127	E3M10000051E11	2369	E1M10000252A07	3611	P1M10000075F02	4853	S1M10000022C11	6095	S1M10000047C05
1128	E3M10000051F11	2370	E1M10000252H07	3612	P1M10000075B03	4854	S1M10000022D11	6096	S1M10000047D05
1129	E3M10000051G11	2371	E1M10000252A09	3613	P1M10000075A04	4855	S1M10000022F11	6097	S1M10000047E05
1130	E3M10000051F12	2372	E1M10000252E09	3614	P1M10000075C04	4856	S1M10000022H11	6098	S1M10000047F05
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1133	E3M10000050B03	2375	E1M10000252E10	3617	P1M10000076D05	4859	S1M10000022G12	6101	S1M10000047A06
1134	E3M10000050C03	2376	E1M10000252E11	3618	P1M10000076C08	4860	S1M10000023B01	6102	S1M10000047B06
1135	E3M10000050D03	2377	E1M10000252E12	3619	P1M10000076D10	4861	S1M10000023D01	6103	S1M10000047C06
1136	E3M10000050E03	2378	E1M10000253A02	3620	P1M10000077E04	4862	S1M10000023E01	6104	S1M10000047E06
1137	E3M10000050A04	2379	E1M10000253G02	3621	P1M10000077H05	4863	S1M10000023G01	6105	S1M10000047F06
1138	E3M10000050E04	2380	E1M10000253C04	3622	P1M10000077A08	4864	S1M10000023C02	6106	S1M10000047G06
1139	E3M10000050H08	2381	E1M10000253D04	3623	P1M10000077C08	4865	S1M10000023G02	6107	S1M10000047A07
1140	E3M10000052C01	2382	E1M10000253F04	3624	P1M10000096F01	4866	S1M10000023H02	6108	S1M10000047C07
1141	E3M10000052F01	2383	E1M10000253H05	3625	P1M10000096E04	4867	S1M10000023B03	6109	S1M10000047D07
1142	E3M10000052C02	2384	E1M10000253D08	3626	P1M10000096E12	4868	S1M10000023D03	6110	S1M10000047F07
1143	E3M10000052D02	2385	E1M10000253E08	3627	P1M10000097G05	4869	S1M10000023G03	6111	S1M10000047G07
1144	E3M10000052G02	2386	E1M10000253A09	3628	P1M10000059B04	4870	S1M10000023D04	6112	S1M10000047H07
1145	E3M10000052B03	2387	E1M10000253D09	3629	P1M10000059H08	4871	S1M10000023E04	6113	S1M10000047A08
1146	E3M10000052E03	2388	E1M10000253E09	3630	P1M10000059H09	4872	S1M10000023F04	6114	S1M10000047B08
1147	E3M10000052G03	2389	E1M10000253F09	3631	P1M10000059B10	4873	S1M10000023A05	6115	S1M10000047C08
1148	E3M10000052B04	2390	E1M10000253G09	3632	P1M10000059B11	4874	S1M10000023D05	6116	S1M10000047E08
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1152	E3M10000052D05	2394	E1M10000253B11	3636	P1M10000060H04	4878	S1M10000023B07	6120	S1M10000047A09
1153	E3M10000052F05	2395	E1M10000253F11	3637	P1M10000079D01	4879	S1M10000023D07	6121	S1M10000047B09
1154	E3M10000052G05	2396	E1M10000253D12	3638	P1M10000079F06	4880	S1M10000023E07	6122	S1M10000047C09
1155	E3M10000052G06	2397	E1M10000253G12	3639	P1M10000079A10	4881	S1M10000023F07	6123	S1M10000047D09
1156	E3M10000052H06	2398	E1M10000254A03	3640	P1M10000079B10	4882	S1M10000023G07	6124	S1M10000047E09
1157	E3M10000052B07	2399	E1M10000254B03	3641	P1M10000079C10	4883	S1M10000023H07	6125	S1M10000047F09
1158	E3M10000052F08	2400	E1M10000254C03	3642	P1M10000079D10	4884	S1M10000023B08	6126	S1M10000047G09
1159	E3M10000052E09	2401	E1M10000254F03	3643	P1M10000080B01	4885	S1M10000023D08	6127	S1M10000047H09
1160	E3M10000052G09	2402	E1M10000254A04	3644	P1M10000080C01	4886	S1M10000023F08	6128	S1M10000047A10
1161	E3M10000052F10	2403	E1M10000254G05	3645	P1M10000080E04	4887	S1M10000023G08	6129	S1M10000047B10
1162	E3M10000052D11	2404	E1M10000254H05	3646	P1M10000080B06	4888	S1M10000023A09	6130	S1M10000047D10
1163	E3M10000052D12	2405	E1M10000254B06	3647	P1M10000080C06	4889	S1M10000023B09	6131	S1M10000047E10
1164	1008-H20	2406	E1M10000254A07	3648	P1M10000081G05	4890	S1M10000023D09	6132	S1M10000047F10
1165	1011-P20	2407	E1M10000254E07	3649	P1M10000081H05	4891	S1M10000023G09	6133	S1M10000047G10
1166	1053-37	2408	E1M10000254G07	3650	P1M10000081A06	4892	S1M10000023H09	6134	S1M10000047H10
1167	1010-C11	2409	E1M10000254A08	3651	P1M10000081D12	4893	S1M10000023B10	6135	S1M10000047A11
1168	1017-H1	2410	E1M10000254B09	3652	P1M10000082A02	4894	S1M10000023C10	6136	S1M10000047B11
1169	1067-16	2411	E1M10000254F10	3653	P1M10000082B04	4895	S1M10000023D10	6137	S1M10000047C11
1170	1083-27	2412	E1M10000254A11	3654	P1M10000082A05	4896	S1M10000023E10	6138	S1M10000047E11
1171	1065-12	2413	E1M10000254C11	3655	P1M10000082C05	4897	S1M10000023F10	6139	S1M10000047F11
1172	221-41	2414	E1M10000254E12	3656	P1M10000082D05	4898	S1M10000023H10	6140	S1M10000047H11
1173	B17-6.O10	2415	E1M10000255C01	3657	P1M10000082E05	4899	S1M10000023A11	6141	S1M10000047A12
1174	910-B20	2416	E1M10000255G02	3658	P1M10000083B01	4900	S1M10000023B11	6142	S1M10000047B12
1175	B18-2.N21	2417	E1M10000255H02	3659	P1M10000083A11	4901	S1M10000023C11	6143	S1M10000047C12
1176	971-B20	2418	E1M10000255A04	3660	P1M10000083B12	4902	S1M10000023E11	6144	S1M10000047D12
1177	D1-1.A15	2419	E1M10000255D05	3661	P1M10000083C12	4903	S1M10000023F11	6145	S1M10000047E12
1178	4-28.1	2420	E1M10000255F06	3662	P1M10000084D03	4904	S1M10000023G11	6146	S1M10000047F12
1179	D1-2.B13	2421	E1M10000255G06	3663	P1M10000084A04	4905	S1M10000023A12	6147	S1M10000048C01
1180	D1-2.P21	2422	E1M10000255B08	3664	P1M10000084E04	4906	S1M10000023B12	6148	S1M10000048D01
1181	Z56-D2	2423	E1M10000255D09	3665	P1M10000084F08	4907	S1M10000023C12	6149	S1M10000048G01
1182	PJMF55	2424	E1M10000255F09	3666	P1M10000084E11	4908	S1M10000023D12	6150	S1M10000048H01
1183	R1-15.A13	2425	E1M10000255B10	3667	P1M10000085D06	4909	S1M10000023F12	6151	S1M10000048A02
1184	R1-19.H1	2426	E1M10000256F01	3668	P1M10000086B01	4910	S1M10000024D01	6152	S1M10000048B02
1185	R1-55.M2	2427	E1M10000256B02	3669	P1M10000086E01	4911	S1M10000024A02	6153	S1M10000048C02

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1187	Z8-B9	2429	E1M10000256A04	3671	P1M10000086D02	4913	S1M10000024D02	6155	S1M10000048E02
1188	E1M10000007B04	2430	E1M10000256C05	3672	P1M10000086E05	4914	S1M10000024F02	6156	S1M10000048F02
1189	227-10	2431	E1M10000256E07	3673	P1M10000087E04	4915	S1M10000024H02	6157	S1M10000048G02
1190	709-F23	2432	E1M10000256E09	3674	P1M10000087F04	4916	S1M10000024D03	6158	S1M10000048H02
1191	801-C15	2433	E1M10000256A10	3675	P1M10000087C09	4917	S1M10000024E03	6159	S1M10000048A03
1192	801-H19	2434	E1M10000256F10	3676	P1M10000087F09	4918	S1M10000024F03	6160	S1M10000048B03
1193	804-P6	2435	E1M10000256C12	3677	P1M10000087A11	4919	S1M10000024A04	6161	S1M10000048C03
1194	807-D20	2436	E1M10000257C01	3678	P1M10000088C04	4920	S1M10000024C04	6162	S1M10000048E03
1195	B13-17.G8	2437	E1M10000257G01	3679	P1M10000088A07	4921	S1M10000024D04	6163	S1M10000048F03
1196	B5-6.C8	2438	E1M10000257A02	3680	P1M10000089G08	4922	S1M10000024H04	6164	S1M10000048G03
1197	B8-2.D9	2439	E1M10000257D02	3681	P1M10000089D11	4923	S1M10000024B05	6165	S1M10000048H03
1198	B15-8.P13	2440	E1M10000257H02	3682	P1M10000090E01	4924	S1M10000024E05	6166	S1M10000048E04
1199	T13-5.A2	2441	E1M10000257C03	3683	P1M10000090F06	4925	S1M10000024F05	6167	S1M10000048G04
1200	T12-3.I11	2442	E1M10000257F04	3684	P1M10000090F08	4926	S1M10000024G05	6168	S1M10000048H04
1201	T20-15.D4	2443	E1M10000257G04	3685	P1M10000090B11	4927	S1M10000024B06	6169	S1M10000048A05
1202	T24-15.G6	2444	E1M10000257B05	3686	P1M10000091A09	4928	S1M10000024E06	6170	S1M10000048B05
1203	T24-17.C6	2445	E1M10000257D05	3687	P1M10000091E09	4929	S1M10000024G06	6171	S1M10000048C05
1204	244.B12	2446	E1M10000257F06	3688	P1M10000091G10	4930	S1M10000024H06	6172	S1M10000048F05
1205	1042-J1	2447	E1M10000257G07	3689	P1M10000092B02	4931	S1M10000024A07	6173	S1M10000048G05
1206	195.F5	2448	E1M10000257H07	3690	P1M10000092E02	4932	S1M10000024C07	6174	S1M10000048H05
1207	25.D5	2449	E1M10000257H08	3691	P1M10000092B04	4933	S1M10000024E07	6175	S1M10000048A06
1208	25.D6	2450	E1M10000257A09	3692	P1M10000092F05	4934	S1M10000024G07	6176	S1M10000048B06
1209	177.F3	2451	E1M10000257D09	3693	P1M10000092F06	4935	S1M10000024H07	6177	S1M10000048C06
1210	525.H11	2452	E1M10000257G10	3694	P1M10000092D09	4936	S1M10000024A08	6178	S1M10000048E06
1211	632.N2	2453	E1M10000257H10	3695	P1M10000092B10	4937	S1M10000024B08	6179	S1M10000048A07
1212	633.B7	2454	E1M10000257A11	3696	P1M10000092B12	4938	S1M10000024E08	6180	S1M10000048C07
1213	671.I20	2455	E1M10000257C11	3697	P1M10000093A03	4939	S1M10000024F08	6181	S1M10000048E07
1214	676.B12	2456	E1M10000257F11	3698	P1M10000093B03	4940	S1M10000024G08	6182	S1M10000048F07
1215	643.B19	2457	E1M10000257B12	3699	P1M10000093F03	4941	S1M10000024H08	6183	S1M10000048G07
1216	720.O16	2458	E1M10000257F12	3700	P1M10000093H07	4942	S1M10000024B09	6184	S1M10000048H07
1217	666.H12	2459	E1M10000258C01	3701	P1M10000093C08	4943	S1M10000024B10	6185	S1M10000048B08
1218	98.D4	2460	E1M10000258H02	3702	P1M10000093B09	4944	S1M10000024D10	6186	S1M10000048C08
1219	844.B21	2461	E1M10000258G03	3703	P1M10000093E09	4945	S1M10000024F10	6187	S1M10000048D08
1220	P31-25-F3	2462	E1M10000258A04	3704	P1M10000094H03	4946	S1M10000024G10	6188	S1M10000048E08
1221	P335-8.H8	2463	E1M10000258C04	3705	P1M10000094F04	4947	S1M10000024A11	6189	S1M10000048F08

SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name	SeqID	Clone Name
1222	P347.2	2464	E1M10000258G04	3706	P1M10000094H04	4948	S1M10000024D11	6190	S1M10000048H08
1223	P31-11-J20	2465	E1M10000258C05	3707	P1M10000094A10	4949	S1M100000024G12	6191	S1M10000048A09
1224	P336-14.F20	2466	E1M10000258D05	3708	P1M10000095C01	4950	S1M10000025B01	6192	S1M10000048C09
1225	P31-27-M1	2467	E1M10000258F05	3709	P1M10000095E04	4951	S1M10000025C01	6193	S1M10000048D09
1226	P338-4.M21	2468	E1M10000258G05	3710	P1M10000095G04	4952	S1M10000025D01	6194	S1M10000048E09
1227	P334-8.L7	2469	E1M10000258A06	3711	P1M10000095C09	4953	S1M10000025E01	6195	S1M10000048F09
1228	P31-2-E16	2470	E1M10000258D06	3712	P1M10000102E05	4954	S1M100000025B02	6196	S1M10000048H09
1229	P335-3.J14	2471	E1M10000258B07	3713	P1M10000102B07	4955	S1M100000025A03	6197	S1M10000048A10
1230	P334-5.H2	2472	E1M10000258G07	3714	P1M10000103B05	4956	S1M10000025B03	6198	S1M10000048B10
1231	P31-33-N2	2473	E1M10000258G08	3715	P1M10000103D06	4957	S1M10000025C03	6199	S1M10000048C10
1232	P332-11.C20	2474	E1M10000258B09	3716	P1M10000103E08	4958	S1M10000025D03	6200	S1M10000048D10
1233	869.A23	2475	E1M10000258D09	3717	P1M10000104A02	4959	S1M10000025F03	6201	S1M10000048E10
1234	P317-2.A3	2476	E1M10000258F10	3718	P1M10000104H02	4960	S1M10000025D04	6202	S1M10000048G10
1235	P326-9.K2	2477	E1M10000258C11	3719	P1M10000104A03	4961	S1M10000025E04	6203	S1M10000048H10
1236	P323-8.P1	2478	E1M10000258F11	3720	P1M10000104E03	4962	S1M10000025G04	6204	S1M10000048A11
1237	P35-8	2479	E1M10000259C03	3721	P1M10000104F07	4963	S1M10000025B05	6205	S1M10000048C11
1238	P36-13.E2	2480	E1M10000259B04	3722	P1M10000104D11	4964	S1M10000025C05	6206	S1M10000048D11
1239	P38-1.G20	2481	E1M10000259E04	3723	P1M10000105D01	4965	S1M10000025F05	6207	S1M10000048F11
1240	P327-50.M10	2482	E1M10000259E05	3724	P1M10000105E02	4966	S1M10000025H05	6208	S1M10000048G11
1241	P328-8.D21	2483	E1M10000259B12	3725	P1M10000105C03	4967	S1M10000025B06	6209	S1M10000048H11
1242	P328-20.P20	2484	E1M10000260E02	3726	P1M10000105G03	4968	S1M10000025D06	6210	S1M10000048A12

EXAMPLE 3

Comparison Of Isolated Nucleic Acids to Known Sequences

The nucleotide sequences of the subcloned fragments from *Escherichia coli, Staphylococcus aureus, Enterococcus faecalis, Klebsiella pneumoniae, Pseudomonas aeruginosa* and *Salmonella typhimurium* obtained from the expression vectors discussed above were compared to known sequences from *Escherichia coli, Staphylococcus aureus, Enterococcus faecalis, Klebsiella pneumoniae, Pseudomonas aeruginosa, Salmonella typhimurium* and other microorganisms as follows. First, to confirm that each clone originated from one location on the chromosome and was not chimeric, the nucleotide sequences of the selected clones were compared against the *Escherichia coli, Staphylococcus aureus, Enterococcus faecalis, Klebsiella pneumoniae, Pseudomonas aeruginosa* or *Salmonella typhimurium* genomic sequences to align the clone to the correct position on the chromosome. The NCBI BLASTN v 2.0.9 program was used for this comparison, and the incomplete *Staphylococcus aureus* genomic sequences licensed from TIGR, as well as the NCBI nonredundant GenBank database were used as the source of genomic data. *Salmonella typhimurium* sequences were compared to sequences available from the Genome Sequencing Center (http://genome.wustl.edu/gsc/salmonella.shtml), and the Sanger Centre (http://www.sanger.ac.uk/projects/S___typhi). *Pseudomonas aeruginosa* sequences were compared to a proprietary database and the NCBI GenBank database. The *E. faecalis* sequences were compared to a proprietary database.

The BLASTN analysis was performed using the default parameters except that the filtering was turned off. No further analysis was performed on inserts which resulted from the ligation of multiple fragments.

In general, antisense molecules and their complementary genes are identified as follows. First, all possible full length open reading frames (ORFs) are extracted from available genomic databases. Such databases include the GenBank nonredundant (nr) database, the unfinished genome database available from TIGR and the PathoSeq database developed by Incyte Genomics. The latter database comprises over 40 annotated bacterial genomes including complete ORF analysis. If databases are incomplete with regard to the bacterial genome of interest, it is not necessary to extract all ORFs in the genome but only to extract the ORFs within the portions of the available genomic sequences which are complementary to the clones of interest. Computer algorithms for identifying ORFs, such as GeneMark, are available and well known to those in the art. Comparison of the clone DNA to the complementary ORF(s) allows determination of whether the clone is a sense or antisense clone. Furthermore, each ORF extracted from the database can be compared to sequences in well annotated databases including the GenBank (nr) protein database, SWISSPROT and the like. A description of the gene or of a closely related gene in a closely related microorganism is often available in these databases. Similar methods are used to identify antisense clones corresponding to genes encoding non-translated RNAs.

In order to generate the gene identification data compiled in Table IB, each of the cloned

nucleic acid sequences discussed above corresponding to SEQ ID NO.s 1-6213 was used to identify

the corresponding *Escherichia coli, Staphylococcus aureus, Enterococcus faecalis, Klebsiella*

pneumoniae, Pseudomonas aeruginosa or *Salmonella typhimurium* ORFs in the PathoSeq v.4.1

5   (March 2000 release) database of microbial genomic sequences.   For this purpose, the NCBI

BLASTN 2.0.9 computer algorithm was used.   The default parameters were used except that

filtering was turned off. The default parameters for the BLASTN and BLASTX analyses were:

Expectation value (e)=10

Alignment view options: pairwise
10   Filter query sequence (DUST with BLASTN, SEG with others)=T
Cost to open a gap (zero invokes behavior)=0
Cost to extend a gap (zero invokes behavior)=0
X dropoff value for gapped alignment (in bits) (zero invokes behavior)=0
Show GI's in deflines=F
15   · Penalty for a nucleotide mismatch (BLASTN only)=!3
Reward for a nucleotide match (BLASTN only)=1
Number of one-line descriptions (V)=500
Number of alignments to show (B)=250
Threshold for extending hits=default
20   Perform gapped alignment (not available with BLASTX)=T
Query Genetic code to use=1
DB Genetic code (for TBLAST[nx] only=1
Number of processors to use=1
SeqAlign file
25   Believe the query defline=F
Matrix=BLOSUM62
Word Size= default
Effective length of the database (use zero for the real size)=0
Number of best hits from a region to keep=100
30   Length of region used to judge hits=20
Effective length of the search space (use zero for the real size)=0
Query strands to search against database (for BLAST[nx] and TBLASTX), 3 is both, 1 is
top, 2 is bottom=3
Produce HTML output=F

35

Alternatively, ORFs were identified and refined by conducting a survey of the public and

private data sources. Full-length gene protein and nucleotide sequences for these organisms were

assembled from various sources. For *Pseudomonas aeruginosa*, gene sequences were adopted from

the Pseudomonas genome sequencing project (downloaded from http://www.pseudomonas.com).

40   For *Klebsiella pneumoniae, Staphylococcus aureus, Streptococcus pneumoniae* and *Salmonella*

typhi, genomic sequences from PathoSeq v 4.1 (Mar 2000 release) was reanalyzed for ORFs using

the gene finding software GeneMark v 2.4a, which was purchased from GenePro Inc. 451 Bishop

St., N.W., Suite B, Atlanta, GA, 30318, USA.

Antisense clones were identified as those clones for which transcription from the inducible

45   promoter would result in the expression of an RNA antisense to a complementary ORF, intergenic

or intragenic sequence. Those clones containing single inserts and that caused growth sensitivity upon induction are listed in Table IA.

The gene descriptions in the PathoSeq database derive from annotations available in the public sequence databases described above. Where a clone was found to share significant sequence identity to two or more adjacent ORFs, it was listed once for each ORF and the PathoSeq information for each ORF was compiled in Table IB.

Table IA lists the SEQ ID NOs. and clone names of the inserts which inhibited proliferation. This information was used to identify the ORFs (SEQ ID NOs.: 6214-42397) whose gene products (SEQ ID NOs. 42398-78581) were inhibited by the nucleic acids comprising the nucleotide sequences of SEQ ID NOs. 1-6213. Table IB lists the clone name and the PathoSeq Locus containing the clone.

TABLE IB

Clone Name	Gene LocusID	Clone Name	Gene LocusID	Clone Name	Gene LocusID
E3M10000001B01	EFA205257	E1M10000233C05	ECO103161	S1M10000005E05	SAU802496
E3M10000001B01	EFA205258	E1M10000233H05	ECO103224	S1M10000005C06	SAU802121
E3M10000001A02	EFA205257	E1M10000233H05	ECO103225	S1M10000005D06	SAU801183
E3M10000001A02	EFA205258	E1M10000233D08	ECO103185	S1M10000005D06	SAU801184
E3M10000001B02	EFA205225	E1M10000233F08	ECO103265	S1M10000005A07	SAU800967
E3M10000001B02	EFA201977	E1M10000233F08	ECO103266	S1M10000005B07	SAU802496
E3M10000001B02	EFA203137	E1M10000233A09	ECO104092	S1M10000005D07	SAU801264
E3M10000001C02	EFA200840	E1M10000233A09	ECO104093	S1M10000005A08	SAU802496
E3M10000001D02	EFA202003	E1M10000233E09	ECO103238	S1M10000005B08	SAU800548
E3M10000001E02	EFA200840	E1M10000233E09	ECO103239	S1M10000005D08	SAU800607
E3M10000001F02	EFA200807	E1M10000233F09	ECO103886	S1M10000005E08	SAU802496
E3M10000001G02	EFA205257	E1M10000233D10	ECO103242	S1M10000005B09	SAU800122
E3M10000001G02	EFA205258	E1M10000233D10	ECO103243	S1M10000005C09	SAU801481
E3M10000001H02	EFA200811	E1M10000233H10	ECO100094	S1M10000005D09	SAU800542
E3M10000001E03	EFA201987	E1M10000234E01	ECO103884	S1M10000005A10	SAU801723
E3M10000001E03	EFA205258	E1M10000234B02	ECO103886	S1M10000005A10	SAU801722
E3M10000001G03	EFA201987	E1M10000234G02	ECO103233	S1M10000005A11	SAU801644
E3M10000001G03	EFA205258	E1M10000234G02	ECO103234	S1M10000005C11	SAU801113
E3M10000001H03	EFA201987	E1M10000234C05	ECO103181	S1M10000005D11	SAU800547
E3M10000001H03	EFA205258	E1M10000234C07	ECO103844	S1M10000005E11	SAU800155
E3M10000001D04	EFA201980	E1M10000234C08	ECO103878	S1M10000005B12	SAU802160
E3M10000001D04	EFA201981	E1M10000234C08	ECO204942	S1M10000005B12	SAU603460
E3M10000001D04	EFA205229	E1M10000234F08	ECO103461	S1M10000005D12	SAU801644
E3M10000001E04	EFA201028	E1M10000234H08	ECO103226	S1M10000006F01	SAU801264
E3M10000001F04	EFA200811	E1M10000234F09	ECO103055	S1M10000006B02	SAU800381
E3M10000001G04	EFA201993	E1M10000234D10	ECO100876	S1M10000006E02	SAU802496
E3M10000001H04	EFA201980	E1M10000234G10	ECO100886	S1M10000006F02	SAU802160
E3M10000001H04	EFA201981	E1M10000234B12	ECO104010	S1M10000006G02	SAU802125
E3M10000001H04	EFA205229	E1M10000235D01	ECO102233	S1M10000006A03	SAU802496
E3M10000001B05	EFA201993	E1M10000235A03	ECO100798	S1M10000006B03	SAU802655
E3M10000001D05	EFA201974	E1M10000235H03	ECO103886	S1M10000006D03	SAU801740
E3M10000001D05	EFA201975	E1M10000235E04	ECO103236	S1M10000006E03	SAU801256
E3M10000001G05	EFA202001	E1M10000235B06	ECO103886	S1M10000006F03	SAU801434
E3M10000001G05	EFA202003	E1M10000235F06	ECO103481	S1M10000006G03	SAU801275
E3M10000001A06	EFA201028	E1M10000235B08	ECO103885	S1M10000006A04	SAU801139
E3M10000001F06	EFA201028	E1M10000235E08	ECO103161	S1M10000006B04	SAU802496
E3M10000001B08	EFA201028	E1M10000235B09	ECO101848	S1M10000006C04	SAU802158
E3M10000001E08	EFA200807	E1M10000235H09	ECO103481	S1M10000006E04	SAU801089
E3M10000001C09	EFA200839	E1M10000235H09	ECO103482	S1M10000006F04	SAU801644
E3M10000001D09	EFA201987	E1M10000235B10	ECO100886	S1M10000006G04	SAU801740
E3M10000001D09	EFA205258	E1M10000235A11	ECO102299	S1M10000006A05	SAU802224
E3M10000001E09	EFA201987	E1M10000235F12	ECO103233	S1M10000006A05	SAU802223
E3M10000001E09	EFA205258	E1M10000235F12	ECO103234	S1M10000006D05	SAU802496
E3M10000001B10	EFA205257	E1M10000236E01	ECO100095	S1M10000006G05	SAU801256
E3M10000001B10	EFA205258	E1M10000236A02	ECO102340	S1M10000006C06	SAU800331
E3M10000004D01	EFA201985	E1M10000236E02	ECO103878	S1M10000006C06	SAU800332
E3M10000004D01	EFA201984	E1M10000236E02	ECO204942	S1M10000006D06	SAU802496
E3M10000004D01	EFA202953	E1M10000236A03	ECO103287	S1M10000006F06	SAU800548
E3M10000004G01	EFA200839	E1M10000236D03	ECO102556	S1M10000006G06	SAU800006
E3M10000004D02	EFA202022	E1M10000236G03	ECO102655	S1M10000006A07	SAU800967
E3M10000004D02	EFA202028	E1M10000236A04	ECO103186	S1M10000006B07	SAU801760

Clone Name	Gene LocusID	Clone Name	Gene LocusID	Clone Name	Gene LocusID
E3M10000004D02	EFA202536	E1M10000236D04	ECO103481	S1M10000006C07	SAU800546
E3M10000004C03	EFA200412	E1M10000236G04	ECO103510	S1M10000006D07	SAU801105
E3M10000004A04	EFA201981	E1M10000236A05	ECO102847	S1M10000006E07	SAU802496
E3M10000004A04	EFA205229	E1M10000236F05	ECO103181	S1M10000006G07	SAU801731
E3M10000004F08	EFA201977	E1M10000236F05	ECO103182	S1M10000006A08	SAU802496
E3M10000004F08	EFA203137	E1M10000236H06	ECO103242	S1M10000006E08	SAU802238
E3M10000004D10	EFA201999	E1M10000236H06	ECO103243	S1M10000006A10	SAU802496
E3M10000004D10	EFA201997	E1M10000236D08	ECO103669	S1M10000006B10	SAU802240
E3M10000004F10	EFA200624	E1M10000236F09	ECO103228	S1M10000006C10	SAU802496
E3M10000004E11	EFA200624	E1M10000236C10	ECO102227	S1M10000006G10	SAU802247
E3M10000004H11	EFA205225	E1M10000236A11	ECO102986	S1M10000006G10	SAU802248
E3M10000004H11	EFA201977	E1M10000236C11	ECO101088	S1M10000006B11	SAU801618
E3M10000004H11	EFA203137	E1M10000236F12	ECO101355	S1M10000006G11	SAU802119
E3M10000005B01	EFA201984	E1M10000237A02	ECO103161	S1M10000006G11	SAU802118
E3M10000005B01	EFA201983	E1M10000237B02	ECO101830	S1M10000006A12	SAU800548
E3M10000005C01	EFA200839	E1M10000237E04	ECO103217	S1M10000006B12	SAU802558
E3M10000005E01	EFA201977	E1M10000237E04	ECO103218	S1M10000007F01	SAU801256
E3M10000005E01	EFA203137	E1M10000237H04	ECO103624	S1M10000007B02	SAU800591
E3M10000005E02	EFA201977	E1M10000237H04	ECO103625	S1M10000007B02	SAU800592
E3M10000005E02	EFA203137	E1M10000237G06	ECO103232	S1M10000007F02	SAU801366
E3M10000005C03	EFA200811	E1M10000237G06	ECO103233	S1M10000007G02	SAU801138
E3M10000005C03	EFA200812	E1M10000237C07	ECO103886	S1M10000007A03	SAU801899
E3M10000005D03	EFA200811	E1M10000237G07	ECO103263	S1M10000007D03	SAU802496
E3M10000005D03	EFA200812	E1M10000237H07	ECO102267	S1M10000007G03	SAU800967
E3M10000005E03	EFA200811	E1M10000237A08	ECO103217	S1M10000007C04	SAU801740
E3M10000005E03	EFA200812	E1M10000237A08	ECO103216	S1M10000007E04	SAU802496
E3M10000005C04	EFA200660	E1M10000237B08	ECO101185	S1M10000007F04	SAU800478
E3M10000005C04	EFA200661	E1M10000237B08	ECO101186	S1M10000007C05	SAU800547
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E3M10000005H04	EFA200839	E1M10000237D08	ECO103216	S1M10000007C06	SAU801900
E3M10000005G05	EFA201977	E1M10000237E08	ECO103262	S1M10000007D06	SAU800547
E3M10000005G05	EFA203137	E1M10000237E08	ECO103878	S1M10000007E06	SAU801113
E3M10000005A07	EFA200811	E1M10000237E08	ECO204942	S1M10000007C07	SAU801904
E3M10000005A07	EFA200812	E1M10000237B09	ECO101844	S1M10000007E07	SAU801618
E3M10000005F07	EFA200839	E1M10000237D10	ECO102060	S1M10000007G07	SAU802638
E3M10000005B08	EFA201977	E1M10000237D10	ECO102061	S1M10000007C08	SAU800482
E3M10000005B08	EFA203137	E1M10000237E11	ECO100169	S1M10000007E08	SAU800700
E3M10000005E08	EFA202276	E1M10000238G01	ECO103451	S1M10000007F08	SAU802261
E3M10000005D10	EFA201977	E1M10000238A02	ECO103514	S1M10000007F09	SAU800210
E3M10000005D10	EFA203137	E1M10000238F03	ECO101939	S1M10000007D10	SAU800537
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E3M10000005F10	EFA203137	E1M10000238B04	ECO103878	S1M10000007B11	SAU802177
E3M10000006C01	EFA201982	E1M10000238B04	ECO204942	S1M10000007B11	SAU802176
E3M10000006C01	EFA201981	E1M10000238D04	ECO104147	S1M10000007D11	SAU801900
E3M10000006G02	EFA202214	E1M10000238F04	ECO103224	S1M10000008F01	SAU802160
E3M10000006G02	EFA202216	E1M10000238F04	ECO103225	S1M10000008F01	SAU603460
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E3M10000006B03	EFA201997	E1M10000238F05	ECO100194	S1M10000008G02	SAU802643
E3M10000006D03	EFA201982	E1M10000238F05	ECO100195	S1M10000008A03	SAU802177
E3M10000006D03	EFA201981	E1M10000238D06	ECO101185	S1M10000008A03	SAU802176
E3M10000006F04	EFA200811	E1M10000238D06	ECO101186	S1M10000008B03	SAU800023
E3M10000006F04	EFA200812	E1M10000238F06	ECO103229	S1M10000008F03	SAU800753
E3M10000006G04	EFA201999	E1M10000238F06	ECO103230	S1M10000008G03	SAU802369

Clone Name	Gene LocusID	Clone Name	Gene LocusID	Clone Name	Gene LocusID
E3M10000006G04	EFA201997	E1M10000238A07	ECO103236	S1M10000008A04	SAU800478
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251

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255

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265

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E3M10000050D05	EFA202953	E1M10000287A10	ECO103237	S1M10000028A02	SAU801769
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E3M10000051F07	EFA201970	E1M10000289E07	ECO100095	S1M10000028B09	SAU800547
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E3M10000051A10	EFA201999	E1M10000290B01	ECO101067	S1M10000029A03	SAU802240
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E3M10000051E11	EFA201827	E1M10000290F04	ECO103226	S1M10000029G04	SAU802654
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E3M10000052C02	EFA200805	E1M10000291A03	ECO103238	S1M10000029A10	SAU202623
E3M10000052D02	EFA202170	E1M10000291B04	ECO103237	S1M10000029B10	SAU801790
E3M10000052G02	EFA200457	E1M10000291B04	ECO103238	S1M10000029C10	SAU800529
E3M10000052B03	EFA200239	E1M10000291E04	ECO100967	S1M10000029D10	SAU801790
E3M10000052E03	EFA202378	E1M10000291E05	ECO103223	S1M10000029E10	SAU801139
E3M10000052G03	EFA200326	E1M10000291G05	ECO102555	S1M10000029F10	SAU800266
E3M10000052B04	EFA200290	E1M10000291G05	ECO102556	S1M10000029H10	SAU801139

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E3M10000052D05	EFA201888	E1M10000291E07	ECO103866	S1M10000029C12	SAU802070
E3M10000052F05	EFA202168	E1M10000291A08	ECO101221	S1M10000029D12	SAU801552
E3M10000052G05	EFA201926	E1M10000291B08	ECO103217	S1M10000029F12	SAU800253
E3M10000052G06	EFA202274	E1M10000291B08	ECO103218	S1M10000029F12	SAU800257
E3M10000052H06	EFA200805	E1M10000291F08	ECO103229	S1M10000029G12	SAU801138
E3M10000052B07	EFA202168	E1M10000291B10	ECO103881	S1M10000030B01	SAU802654
E3M10000052F08	EFA202378	E1M10000291E10	ECO101591	S1M10000030D01	SAU801113
E3M10000052E09	EFA201985	E1M10000291D11	ECO103263	S1M10000030F01	SAU801473
E3M10000052E09	EFA202953	E1M10000291F11	ECO100095	S1M10000030H01	SAU800543
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E3M10000052F10	EFA200240	E1M10000291H11	ECO103262	S1M10000030C02	SAU802567
E3M10000052D11	EFA200898	E1M10000291H11	ECO103878	S1M10000030D02	SAU801515
E3M10000052D12	EFA202168	E1M10000291H11	ECO204942	S1M10000030E02	SAU801473
1008-H20	ECO100023	E1M10000291B12	ECO103882	S1M10000030H02	SAU802452
1011-P20	ECO100702	E1M10000291F12	ECO103243	S1M10000030B03	SAU802654
1053-37	ECO101256	E1M10000293B01	ECO103885	S1M10000030C03	SAU800275
1053-37	ECO202228	E1M10000293B02	ECO104093	S1M10000030D03	SAU801473
1010-C11	ECO101324	E1M10000293G02	ECO103886	S1M10000030G03	SAU800542
1017-H1	ECO304472	E1M10000293A04	ECO100402	S1M10000030H03	SAU800232
1067-16	ECO102309	E1M10000293B04	ECO103886	S1M10000030C04	SAU800526
1083-27	ECO102636	E1M10000293A05	ECO100095	S1M10000030A05	SAU800478
1065-12	ECO102557	E1M10000293E05	ECO103223	S1M10000030B05	SAU801256
221-41	ECO103884	E1M10000293E05	ECO103224	S1M10000030C05	SAU800526
B17-6.O10	ECO103884	E1M10000293G05	ECO103243	S1M10000030D05	SAU800759
910-B20	ECO103884	E1M10000293A06	ECO101175	S1M10000030D05	SAU302793
B18-2.N21	ECO100148	E1M10000293H06	ECO102654	S1M10000030G05	SAU800776
971-B20	ECO103240	E1M10000293F07	ECO101095	S1M10000030G05	SAU800777
971-B20	ECO103241	E1M10000293C08	ECO101844	S1M10000030H05	SAU800179
D1-1.A15	ECO103394	E1M10000293E08	ECO101939	S1M10000030D06	SAU800189
4-28.1	ECO101485	E1M10000293G08	ECO103101	S1M10000030E06	SAU801257
D1-2.B13	ECO102255	E1M10000293B09	ECO103181	S1M10000030B07	SAU802627
D1-2.P21	ECO102144	E1M10000293G09	ECO102144	S1M10000030D07	SAU800189
Z56-D2	ECO103911	E1M10000293H09	ECO100094	S1M10000030G07	SAU802247
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R1-15.A13	ECO101995	E1M10000293E11	ECO103242	S1M10000030F08	SAU802231
R1-19.H1	ECO101104	E1M10000293F11	ECO104091	S1M10000030F08	SAU802230
R1-55.M2	ECO103884	E1M10000293F11	ECO104092	S1M10000030G08	SAU802250
Z45-F11	ECO103263	E1M10000293C12	ECO100170	S1M10000030A09	SAU801719
Z8-B9	ECO102033	E1M10000293D12	ECO103221	S1M10000030B09	SAU802654
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709-F23	ECO101506	E1M10000295G01	ECO103532	S1M10000030F09	SAU801904
801-C15	ECO100488	E1M10000295G01	ECO103533	S1M10000030G09	SAU800542
801-C15	ECO100490	E1M10000295B02	ECO101635	S1M10000030H09	SAU801644
801-C15	ECO100491	E1M10000295E02	ECO103217	S1M10000030A10	SAU802309
801-H19	ECO100488	E1M10000295E02	ECO103218	S1M10000030A10	SAU802308
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807-D20	ECO100366	E1M10000295B07	ECO100179	S1M10000030G10	SAU800019
807-D20	ECO100367	E1M10000295B07	ECO100180	S1M10000030H10	SAU802654
B13-17.G8	ECO101111	E1M10000295C07	ECO103224	S1M10000030A11	SAU800517
B5-6.C8	ECO101475	E1M10000295C07	ECO103225	S1M10000030A11	SAU202623
B5-6.C8	ECO101476	E1M10000295C07	ECO103226	S1M10000030D11	SAU800517
B5-6.C8	ECO201962	E1M10000295D08	ECO103225	S1M10000030D11	SAU202623
B8-2.D9	ECO103461	E1M10000295D08	ECO103226	S1M10000030E11	SAU802241
B15-8.P13	ECO101328	E1M10000295F08	ECO103160	S1M10000030G11	SAU800811
B15-8.P13	ECO101329	E1M10000295G08	ECO103217	S1M10000030C12	SAU801647
T13-5.A2	ECO103059	E1M10000295G08	ECO103218	S1M10000030C12	SAU801646
T12-3.I11	ECO102857	E1M10000295B09	ECO103236	S1M10000030E12	SAU800537
T20-15.D4	ECO101475	E1M10000295F09	ECO103881	S1M10000030G12	SAU801526
T20-15.D4	ECO101476	E1M10000295F09	ECO103882	S1M10000031B01	SAU802240
T20-15.D4	ECO201962	E1M10000295G09	ECO103263	S1M10000031H01	SAU800023
T24-15.G6	ECO103059	E1M10000295D10	ECO103101	S1M10000031B02	SAU802247
T24-17.C6	ECO102857	E1M10000295H10	ECO103263	S1M10000031E02	SAU801912
244.B12	ECO101763	E1M10000295B11	ECO103229	S1M10000031F02	SAU802231
244.B12	ECO101764	E1M10000295F11	ECO100954	S1M10000031F02	SAU802230
244.B12	ECO101765	E1M10000295G12	ECO103494	S1M10000031G02	SAU802235
1042-J1	ECO100702	E1M10000312D11	ECO104091	S1M10000031G02	SAU802234
1042-J1	ECO100703	E1M10000312D11	ECO104092	S1M10000031H02	SAU801355
195.F5	ECO102842	E1M10000296B01	ECO102304	S1M10000031A03	SAU802250
25.D5	ECO103059	E1M10000296C02	ECO102466	S1M10000031E03	SAU801134
25.D6	ECO103059	E1M10000296C02	ECO102467	S1M10000031E03	SAU801135
177.F3	ECO102309	E1M10000296D02	ECO103235	S1M10000031F03	SAU802240
525.H11	ECO102857	E1M10000296D02	ECO103236	S1M10000031G03	SAU801505
632.N2	ECO104277	E1M10000296D02	ECO103237	S1M10000031A04	SAU801434
633.B7	ECO103479	E1M10000296H02	ECO102556	S1M10000031A04	SAU302892
671.I20	ECO103478	E1M10000296C03	ECO100150	S1M10000031B04	SAU800543
676.B12	ECO103479	E1M10000296C03	ECO100151	S1M10000031C04	SAU800738
643.B19	ECO100702	E1M10000296E03	ECO101086	S1M10000031C04	SAU800737
720.O16	ECO103884	E1M10000296H03	ECO103227	S1M10000031E04	SAU800542
666.H12	ECO103478	E1M10000296H03	ECO103228	S1M10000031F04	SAU801517
666.H12	ECO103479	E1M10000296D04	ECO103237	S1M10000031F04	SAU801516
98.D4	ECO103263	E1M10000296G04	ECO102144	S1M10000031G04	SAU302611
844.B21	ECO102144	E1M10000296F05	ECO103886	S1M10000031G04	SAU302882
P31-25-F3	ECO101686	E1M10000296G05	ECO101467	S1M10000031F05	SAU800548
P335-8.H8	ECO101041	E1M10000296H05	ECO103094	S1M10000031D06	SAU801526
P347.2	ECO101086	E1M10000296A06	ECO100194	S1M10000031G06	SAU800548
P31-11-J20	ECO103228	E1M10000296A06	ECO100195	S1M10000031H06	SAU600582
P336-14.F20	ECO101370	E1M10000296G07	ECO102827	S1M10000031C07	SAU801760
P31-27-M1	ECO103423	E1M10000296G07	ECO102828	S1M10000031D07	SAU801181
P338-4.M21	ECO100139	E1M10000296H07	ECO103220	S1M10000031E07	SAU800016
P334-8.L7	ECO101256	E1M10000296H07	ECO103221	S1M10000031A08	SAU802365
P31-2-E16	ECO101686	E1M10000296E08	ECO100886	S1M10000031D08	SAU801790
P335-3.J14	ECO100523	E1M10000296F08	ECO103218	S1M10000031E08	SAU800547
P334-5.H2	ECO100139	E1M10000296G08	ECO103734	S1M10000031F08	SAU801264
P31-33-N2	ECO103241	E1M10000296H08	ECO100809	S1M10000031C09	SAU801193
P332-11.C20	ECO102827	E1M10000296H08	ECO100810	S1M10000031D09	SAU800019
P332-11.C20	ECO102828	E1M10000296A09	ECO100194	S1M10000031G09	SAU800006
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P326-9.K2	ECO103293	E1M10000296F12	ECO101684	S1M10000031E10	SAU800001
P323-8.P1	ECO101685	E1M10000296G12	ECO100095	S1M10000031F10	SAU800244
P35-8	ECO103692	E1M10000298C01	ECO101438	S1M10000031G10	SAU800962
P36-13.E2	ECO103059	E1M10000298G01	ECO104148	S1M10000031A11	SAU801741
P38-1.G20	ECO102227	E1M10000298G01	ECO104149	S1M10000031B11	SAU801908
P327-50.M10	ECO103242	E1M10000298G02	ECO102636	S1M10000031C11	SAU802152
P327-50.M10	ECO103243	E1M10000298C03	ECO103238	S1M10000031F11	SAU800312
P328-8.D21	ECO103240	E1M10000298C03	ECO103239	S1M10000031G11	SAU801234
P328-8.D21	ECO103241	E1M10000298D03	ECO103886	S1M10000031H11	SAU800962
P328-20.P20	ECO100541	E1M10000298H03	ECO103262	S1M10000031B12	SAU801621
P33-1.C22	ECO103227	E1M10000298H03	ECO103878	S1M10000031C12	SAU801741
X3S107-17	ECO101475	E1M10000298H03	ECO204942	S1M10000031E12	SAU801275
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X3S107-17	ECO201962	E1M10000298E04	ECO100431	S1M10000032B01	SAU802654
P35-7	ECO103928	E1M10000298H04	ECO100809	S1M10000032C01	SAU800548
X3S118-9	ECO103263	E1M10000298H04	ECO100808	S1M10000032F01	SAU800525
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P342-3	ECO102104	E1M10000298D05	ECO101539	S1M10000032E02	SAU801096
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SC13.1	ECO101348	E1M10000298G06	ECO100096	S1M10000032C03	SAU800771
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E1M10000189A04	ECO103624	P1M10000038B08	PAE204067	S1M10000038D02	SAU801392
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E1M10000192F11	ECO101698	P1M10000049E08	PAE204270	S1M10000038C10	SAU801694
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E1M10000204G07	ECO101225	P1M10000089D11	PAE204265	S1M10000042C06	SAU802331
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E1M10000205F11	ECO104168	P1M10000091G10	PAE202739	S1M10000042E08	SAU302611
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284

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E1M10000220C01	ECO103882	S1M10000002B07	SAU802105	S1M10000047B05	SAU801183
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E1M10000220F01	ECO202902	S1M10000002D07	SAU801900	S1M10000047D05	SAU801139
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E1M10000220A03	ECO104091	S1M10000002E07	SAU802496	S1M10000047F05	SAU801139
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E1M10000220B03	ECO101324	S1M10000002D08	SAU801900	S1M10000047G05	SAU801669
E1M10000220F04	ECO102555	S1M10000002G08	SAU800547	S1M10000047H05	SAU800018

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E1M10000220G04	ECO101684	S1M10000002B09	SAU802496	S1M10000047B06	SAU801186
E1M10000220B05	ECO103242	S1M10000002C09	SAU800542	S1M10000047C06	SAU802217
E1M10000220E05	ECO101257	S1M10000002E09	SAU800547	S1M10000047E06	SAU802224
E1M10000220H05	ECO100171	S1M10000002F09	SAU801481	S1M10000047F06	SAU800543
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E1M10000220A08	ECO103263	S1M10000002C11	SAU800444	S1M10000047F07	SAU802247
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E1M10000220D09	ECO103225	S1M10000002C12	SAU800966	S1M10000047A08	SAU802247
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E1M10000222F05	ECO101476	S1M10000003C06	SAU800014	S1M10000047A10	SAU801301
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E1M10000225F03	ECO100435	S1M10000003E11	SAU800548	S1M10000047E12	SAU800543
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E1M10000225F04	ECO101583	S1M10000003B12	SAU302892	S1M10000048C01	SAU800753
E1M10000225A06	ECO103218	S1M10000003C12	SAU800548	S1M10000048D01	SAU802654
E1M10000225B06	ECO101259	S1M10000003F12	SAU801621	S1M10000048G01	SAU800363
E1M10000225B07	ECO103607	S1M10000004C01	SAU802655	S1M10000048H01	SAU801740

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E1M10000225H09	ECO101953	S1M10000004F01	SAU800966	S1M10000048C02	SAU800490
E1M10000225H09	ECO101989	S1M10000004G01	SAU802496	S1M10000048D02	SAU802548
E1M10000225F10	ECO101684	S1M10000004C02	SAU802496	S1M10000048D02	SAU104011
E1M10000225D12	ECO102966	S1M10000004F02	SAU800546	S1M10000048E02	SAU800753
E1M10000225D12	ECO102967	S1M10000004B03	SAU800257	S1M10000048F02	SAU802107
E1M10000225G12	ECO101128	S1M10000004B03	SAU800258	S1M10000048G02	SAU800019
E1M10000226E01	ECO100469	S1M10000004D03	SAU800187	S1M10000048G02	SAU800020
E1M10000226B02	ECO100683	S1M10000004E03	SAU800153	S1M10000048H02	SAU800547
E1M10000226B02	ECO103405	S1M10000004G03	SAU800016	S1M10000048A03	SAU801630
E1M10000226B02	ECO103515	S1M10000004A04	SAU802655	S1M10000048B03	SAU801184
E1M10000226B02	ECO204900	S1M10000004B04	SAU801760	S1M10000048C03	SAU802586
E1M10000226C02	ECO103030	S1M10000004D04	SAU802224	S1M10000048C03	SAU802585
E1M10000226F02	ECO102999	S1M10000004D04	SAU802223	S1M10000048E03	SAU802586
E1M10000226D03	ECO103160	S1M10000004E04	SAU802247	S1M10000048E03	SAU802585
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E1M10000226H06	ECO103848	S1M10000004D06	SAU800006	S1M10000048E04	SAU801183
E1M10000226A08	ECO104132	S1M10000004E06	SAU802240	S1M10000048G04	SAU802247
E1M10000226D08	ECO101753	S1M10000004F06	SAU800152	S1M10000048H04	SAU802586
E1M10000226D09	ECO100430	S1M10000004A07	SAU802503	S1M10000048H04	SAU802585
E1M10000226D09	ECO100431	S1M10000004D07	SAU802496	S1M10000048A05	SAU801263
E1M10000226B10	ECO102113	S1M10000004E07	SAU802177	S1M10000048B05	SAU800753
E1M10000226D10	ECO101623	S1M10000004E07	SAU802176	S1M10000048C05	SAU801891
E1M10000226E10	ECO102714	S1M10000004F07	SAU801683	S1M10000048F05	SAU801184
E1M10000226G11	ECO103244	S1M10000004G07	SAU801644	S1M10000048G05	SAU800542
E1M10000226B12	ECO101916	S1M10000004G07	SAU801643	S1M10000048H05	SAU800546
E1M10000226F12	ECO100240	S1M10000004B08	SAU801346	S1M10000048A06	SAU800546
E1M10000227E03	ECO100975	S1M10000004B08	SAU200535	S1M10000048B06	SAU801184
E1M10000227E03	ECO201249	S1M10000004C08	SAU802503	S1M10000048C06	SAU801670
E1M10000227G03	ECO101458	S1M10000004D08	SAU800517	S1M10000048C06	SAU801669
E1M10000227G03	ECO101459	S1M10000004D08	SAU202623	S1M10000048E06	SAU801186
E1M10000227E04	ECO104148	S1M10000004F08	SAU802224	S1M10000048A07	SAU801253
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E1M10000227C05	ECO104165	S1M10000004C09	SAU802496	S1M10000048G07	SAU800520
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E1M10000227B08	ECO102736	S1M10000004C10	SAU801742	S1M10000048B08	SAU800018
E1M10000227B08	ECO102737	S1M10000004C10	SAU801741	S1M10000048C08	SAU800453
E1M10000227D08	ECO103911	S1M10000004D10	SAU801618	S1M10000048D08	SAU300619
E1M10000227B09	ECO102736	S1M10000004A11	SAU801475	S1M10000048E08	SAU802224
E1M10000227B09	ECO102737	S1M10000004B11	SAU801113	S1M10000048F08	SAU800546
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E1M10000227E11	ECO103724	S1M10000004C12	SAU800519	S1M10000048C09	SAU800548
E1M10000227C12	ECO100394	S1M10000004D12	SAU801183	S1M10000048D09	SAU802244
E1M10000227C12	ECO100395	S1M10000004D12	SAU801184	S1M10000048E09	SAU802090
E1M10000227D12	ECO104144	S1M10000004E12	SAU800528	S1M10000048F09	SAU802238
E1M10000232H02	ECO103235	S1M10000004F12	SAU801900	S1M10000048H09	SAU800546

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E1M10000232B03	ECO101324	S1M10000005C01	SAU802496	S1M10000048C10	SAU800367
E1M10000232H03	ECO103097	S1M10000005E01	SAU800996	S1M10000048D10	SAU802590
E1M10000232C07	ECO100170	S1M10000005B02	SAU802243	S1M10000048E10	SAU802590
E1M10000232F07	ECO103797	S1M10000005D02	SAU800519	S1M10000048G10	SAU802238
E1M10000232F07	ECO103798	S1M10000005E02	SAU802655	S1M10000048H10	SAU802240
E1M10000232G07	ECO104010	S1M10000005F02	SAU801644	S1M10000048A11	SAU802224
E1M10000232A08	ECO100850	S1M10000005F02	SAU801643	S1M10000048C11	SAU802217
E1M10000232G08	ECO100875	S1M10000005A03	SAU802310	S1M10000048D11	SAU802090
E1M10000232G12	ECO102636	S1M10000005D03	SAU800548	S1M10000048F11	SAU802496
E1M10000233C01	ECO103886	S1M10000005F03	SAU802262	S1M10000048G11	SAU801186
E1M10000233A03	ECO100784	S1M10000005B04	SAU801183	S1M10000048H11	SAU801139
E1M10000233B03	ECO100784	S1M10000005D04	SAU801183	S1M10000048A12	SAU801139
E1M10000233D03	ECO100118	S1M10000005D04	SAU801184	S1M10000048B12	SAU802502
E1M10000233H03	ECO103238	S1M10000005F04	SAU800363	S1M10000048D12	SAU800250
E1M10000233H03	ECO103239	S1M10000005F04	SAU800362	S1M10000048D12	SAU800249
E1M10000233C04	ECO102309	S1M10000005F04	SAU800361	S1M10000048G12	SAU802251
E1M10000233G04	ECO101185	S1M10000005C05	SAU801264		
E1M10000233A05	ECO102553	S1M10000005D05	SAU801644		

Table IC provides a cross reference between PathoSeq Gene Loci listed in Table IB and the SEQ ID NOs. of the corresponding PathoSeq polypeptides and the SEQ ID NOs. of the nucleic acids which encode them. The Gene Locus IDs provided in Table IC each comprise a nine digit alpha-numeric identifier that can be used to determine the organism from which each Gene Locus

5   and corresponding SEQ ID NOs. were identified. Specifically, the first letter of the Gene Locus ID corresponds to the first letter of the genus name of the organism described herein from which the Gene Locus was identified and the second and third letters of the Gene Locus ID correspond to the first two letters of the species name of this organism. For example, the identifier EFA205257 describes a gene locus identified from *Enterococcus faecalis*. In those instances where the three

10   letter identifier is the same for different organisms, the exact identity of the organism which corresponds to the Gene Locus ID can be determined by referring to the organism designation in the sequence listing for the coding nucleic acid or polypeptide SEQ ID NO. that corresponds to the particular Gene Locus ID.

TABLE IC

DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
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6215	42399	EFA205258	18277	54461	CJU100848	30338	66522	PAE203654
6216	42400	EFA205225	18278	54462	CJU100855	30339	66523	PAE203656
6217	42401	EFA201977	18279	54463	CJU100856	30340	66524	PAE203658
6218	42402	EFA203137	18280	54464	CJU100859	30341	66525	PAE203668
6219	42403	EFA200840	18281	54465	CJU100860	30342	66526	PAE203670
6220	42404	EFA202003	18282	54466	CJU100861	30343	66527	PAE203672
6221	42405	EFA200807	18283	54467	CJU100862	30344	66528	PAE203677
6222	42406	EFA200811	18284	54468	CJU100863	30345	66529	PAE203684
6223	42407	EFA201987	18285	54469	CJU100866	30346	66530	PAE203691
6224	42408	EFA201980	18286	54470	CJU100870	30347	66531	PAE203698
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6226	42410	EFA205229	18288	54472	CJU100872	30349	66533	PAE203732
6227	42411	EFA201028	18289	54473	CJU100885	30350	66534	PAE203735
6228	42412	EFA201993	18290	54474	CJU100886	30351	66535	PAE203739
6229	42413	EFA201974	18291	54475	CJU100888	30352	66536	PAE203740
6230	42414	EFA201975	18292	54476	CJU100890	30353	66537	PAE203741
6231	42415	EFA202001	18293	54477	CJU100891	30354	66538	PAE203742
6232	42416	EFA200839	18294	54478	CJU100896	30355	66539	PAE203743
6233	42417	EFA201985	18295	54479	CJU100903	30356	66540	PAE203744
6234	42418	EFA201984	18296	54480	CJU100923	30357	66541	PAE203751
6235	42419	EFA202953	18297	54481	CJU100925	30358	66542	PAE203754
6236	42420	EFA202022	18298	54482	CJU100929	30359	66543	PAE203755
6237	42421	EFA202028	18299	54483	CJU100938	30360	66544	PAE203757
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6240	42424	EFA201999	18302	54486	CJU100955	30363	66547	PAE203766
6241	42425	EFA201997	18303	54487	CJU100961	30364	66548	PAE203774
6242	42426	EFA200624	18304	54488	CJU100965	30365	66549	PAE203796
6243	42427	EFA201983	18305	54489	CJU100966	30366	66550	PAE203797
6244	42428	EFA200812	18306	54490	CJU100967	30367	66551	PAE203799
6245	42429	EFA200660	18307	54491	CJU100970	30368	66552	PAE203800
6246	42430	EFA200661	18308	54492	CJU100980	30369	66553	PAE203801
6247	42431	EFA202276	18309	54493	CJU100982	30370	66554	PAE203810
6248	42432	EFA201982	18310	54494	CJU100983	30371	66555	PAE203812
6249	42433	EFA202214	18311	54495	CJU100987	30372	66556	PAE203813
6250	42434	EFA202216	18312	54496	CJU100989	30373	66557	PAE203820
6251	42435	EFA200360	18313	54497	CJU100993	30374	66558	PAE203821
6252	42436	EFA200766	18314	54498	CJU100996	30375	66559	PAE203828
6253	42437	EFA200805	18315	54499	CJU100997	30376	66560	PAE203829
6254	42438	EFA201637	18316	54500	CJU100998	30377	66561	PAE203831
6255	42439	EFA201986	18317	54501	CJU100999	30378	66562	PAE203850
6256	42440	EFA205255	18318	54502	CJU101006	30379	66563	PAE203869
6257	42441	EFA200495	18319	54503	CJU101007	30380	66564	PAE203871
6258	42442	EFA104836	18320	54504	CJU101011	30381	66565	PAE203872
6259	42443	EFA201976	18321	54505	CJU101017	30382	66566	PAE203887
6260	42444	EFA201523	18322	54506	CJU101021	30383	66567	PAE203888
6261	42445	EFA202012	18323	54507	CJU101022	30384	66568	PAE203892
6262	42446	EFA202007	18324	54508	CJU101027	30385	66569	PAE203897
6263	42447	EFA200307	18325	54509	CJU101028	30386	66570	PAE203898
6264	42448	EFA201888	18326	54510	CJU101029	30387	66571	PAE203900
6265	42449	EFA205285	18327	54511	CJU101031	30388	66572	PAE203911

DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID	DNA SeqID	Protein SeqID	Gene LocusID
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6267	42451	EFA201204	18329	54513	CJU101044	30390	66574	PAE203917
6268	42452	EFA201611	18330	54514	CJU101046	30391	66575	PAE203920
6269	42453	EFA201946	18331	54515	CJU101050	30392	66576	PAE203943
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301

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8343	44527	ABA100118	20405	56589	ECO101988	32466	68650	PRT101698
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8348	44532	ABA100127	20410	56594	ECO102034	32471	68655	PRT101726
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8362	44546	ABA100164	20424	56608	ECO102126	32485	68669	PRT101794
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8532	44716	ABA100933	20594	56778	ECO103891	32655	68839	PRT102825
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11054	47238	BBU100694	23116	59300	KPN300579	35177	71361	SHA100393
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11091	47275	BBU100802	23153	59337	KPN300745	35214	71398	SHA100503
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11241	47425	BCE102018	23303	59487	KPN301406	35364	71548	SHA100979
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11244	47428	BCE102065	23306	59490	KPN301426	35367	71551	SHA100985
11245	47429	BCE102082	23307	59491	KPN301427	35368	71552	SHA100988
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11254	47438	BCE102274	23316	59500	KPN301447	35377	71561	SHA101019
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11265	47449	BCE102445	23327	59511	KPN301541	35388	71572	SHA101054
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11268	47452	BCE102515	23330	59514	KPN301558	35391	71575	SHA101061
11269	47453	BCE102526	23331	59515	KPN301560	35392	71576	SHA101064
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